

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042919.D
 Acq On : 09 Sep 2025 08:57
 Operator : SY/MD
 Sample : Q3052-02 4X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Sep 10 04:00:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.781	49	144577	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	360549	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354559	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	286120	10.760	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	2897	0.137	ppbv #	80
3) Chlorodifluoromethane	1.473	51	6459	0.276	ppbv #	89
4) Chloromethane	1.531	50	1809	0.212	ppbv #	74
6) Bromomethane	1.667	94	104	0.031	ppbv #	4
7) Chloroethane	1.700	64	206	0.063	ppbv	96
9) Propene	1.483	41	58817	5.815	ppbv #	74
10) Heptane	4.969	43	107718	3.976	ppbv	100
11) Trichlorofluoromethane	1.874	101	1385	0.066	ppbv	89
13) Ethanol	1.719	45	214709	232.157	ppbv	90
15) Acetone	1.832	43	1667412	87.185	ppbv	90
16) 1,3-Butadiene	1.596	39	14814	1.709	ppbv #	29
17) tert-Butyl alcohol	2.039	59	15284	0.674	ppbv #	84
19) Isopropyl Alcohol	1.884	45	41320	3.617	ppbv #	34
20) Methylene Chloride	2.059	84	21228	2.650	ppbv	89
21) Allyl Chloride	2.075	41	4016	0.297	ppbv #	1
23) Vinyl Acetate	2.470	43	79656	3.029	ppbv #	41
25) Ethyl Acetate	2.820	43	169606	3.664	ppbv #	83
26) Hexane	2.820	57	244507	11.444	ppbv #	43
27) Carbon Disulfide	2.146	76	14480	0.696	ppbv #	26
29) Chloroform	2.842	83	970090	31.802	ppbv	98
30) Cyclohexane	3.855	84	3284	0.175	ppbv #	1
34) 2-Butanone	2.554	43	52283	2.148	ppbv	98
36) Benzene	3.648	78	11227	0.325	ppbv #	93
38) Trichloroethene	4.545	130	1350	0.086	ppbv	88
39) 1,2-Dichloropropane	3.949	63	93466	7.412	ppbv #	27
40) 1,4-Dioxane	4.583	88	1619	0.270	ppbv #	1
41) Tetrahydrofuran	3.062	42	5920	0.436	ppbv #	76
42) Bromodichloromethane	4.480	83	59157	2.201	ppbv #	98
51) 2-Hexanone	7.425	43	61555	2.377	ppbv #	72
52) Tetrachloroethene	8.221	164	997149	79.835	ppbv	92
53) Toluene	6.924	91	98360	2.396	ppbv	98
57) Chlorobenzene	8.862	112	10026	0.297	ppbv #	57
58) Ethyl Benzene	9.351	91	40095	0.641	ppbv	94
59) m/p-Xylene	9.526	91	88677	1.808	ppbv #	100
60) o-Xylene	9.956	91	43341	0.879	ppbv	95
61) Styrene	9.862	104	3089	0.134	ppbv #	37
62) Isopropylbenzene	10.539	105	5055	0.070	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	9.982	83	5135	0.189	ppbv #	25
64) n-propylbenzene	10.986	120	3885	0.211	ppbv #	47
65) tert-Butylbenzene	11.529	119	3360	0.053	ppbv #	1
66) Benzyl Chloride	11.610	91	265	0.033	ppbv #	1
67) sec-Butylbenzene	11.876	105	6977	0.078	ppbv	97
69) p-Isopropyltoluene	11.918	119	3861	0.050	ppbv #	81

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Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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SV2

Quant Time: Sep 10 04:00:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

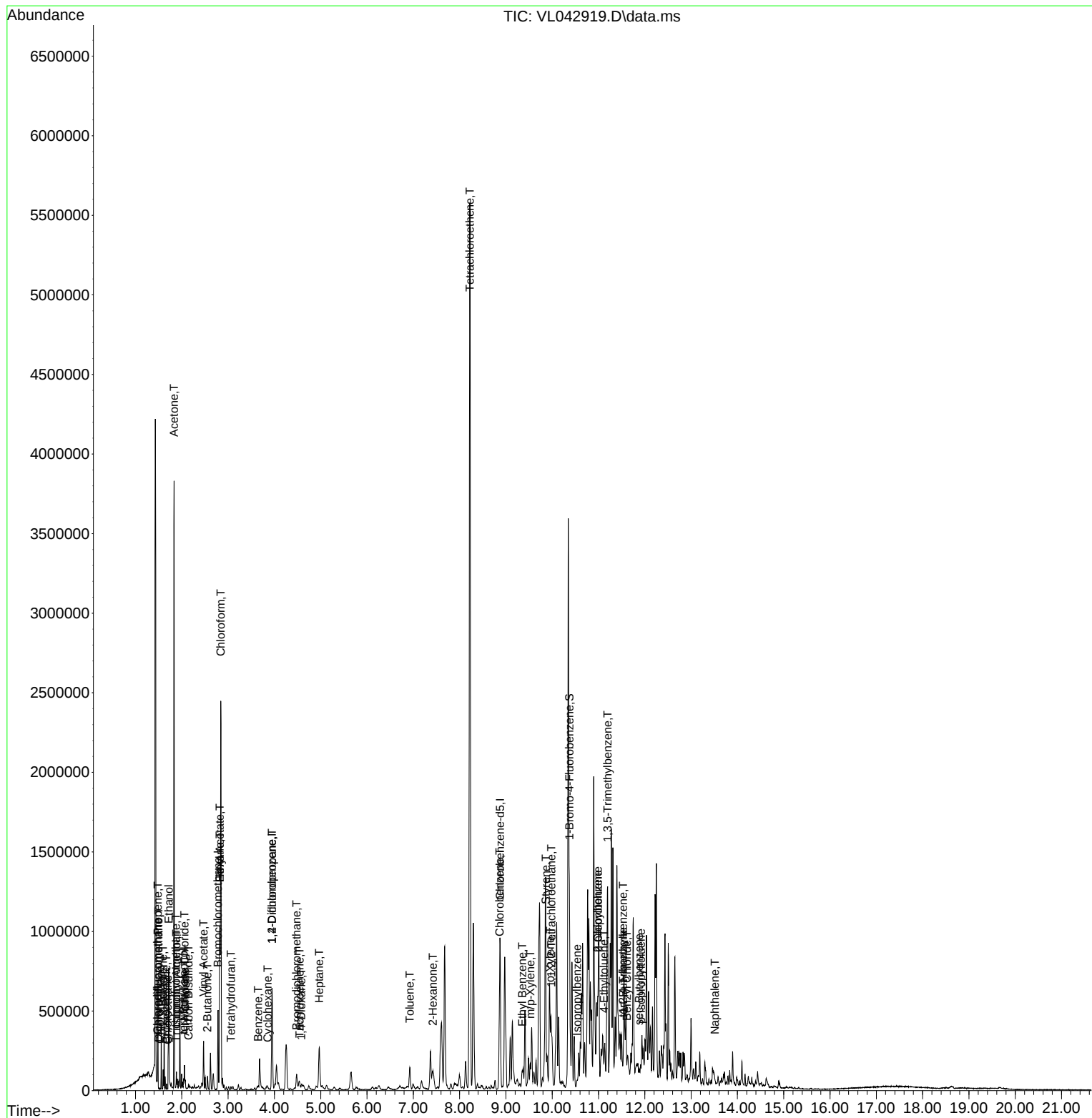
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	10.982	91	19663	0.351	ppbv	81
72) 4-Ethyltoluene	11.121	105	9548	0.160	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.196	105	12878	0.253	ppbv	96
74) 1,2,4-Trimethylbenzene	11.533	105	26540	0.475	ppbv #	59
79) Naphthalene	13.510	128	2194	0.043	ppbv #	47

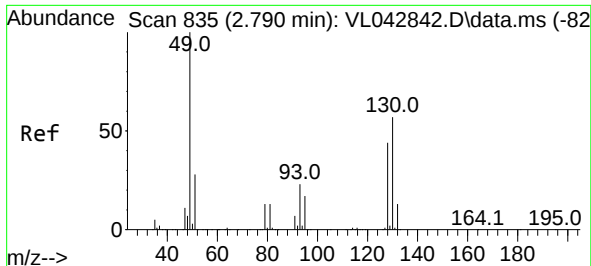
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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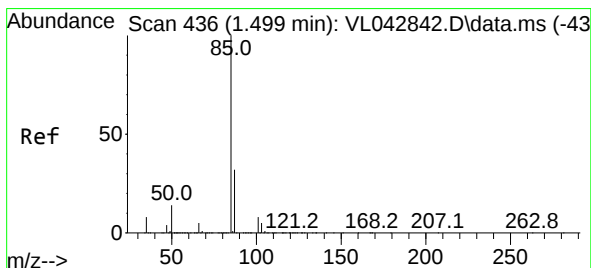
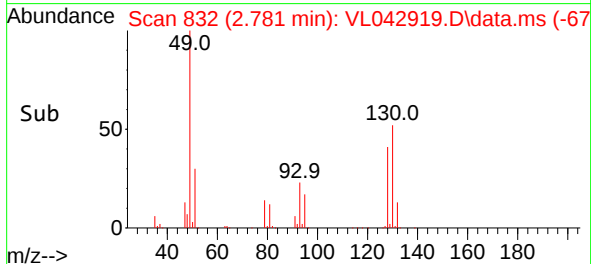
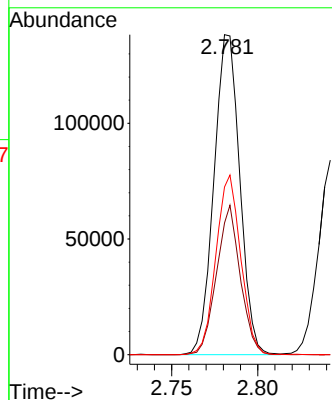
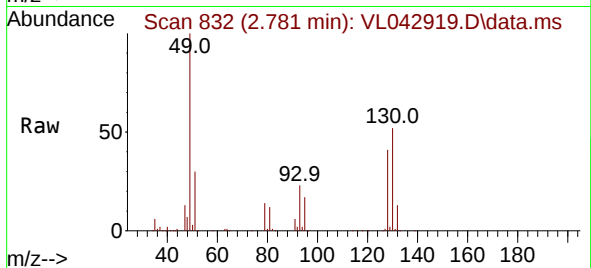




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 832
 Delta R.T. 0.004 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

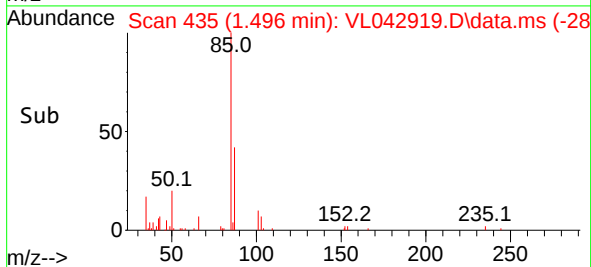
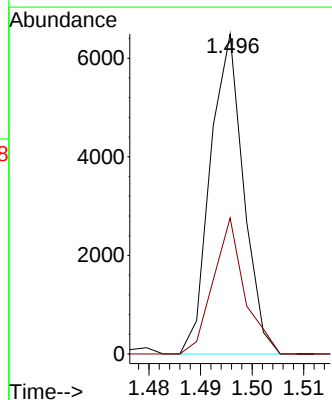
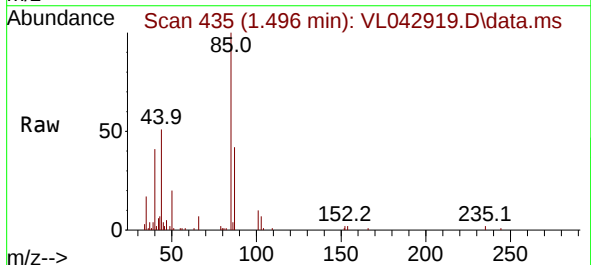
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

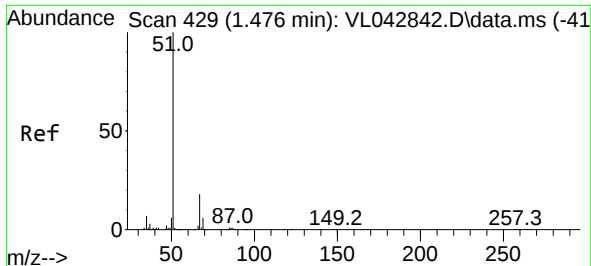
Tgt Ion: 49 Resp: 144577
 Ion Ratio Lower Upper
 49 100
 128 42.8 23.7 71.1
 130 53.9 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.137 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. 0.003 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

Tgt Ion: 85 Resp: 2897
 Ion Ratio Lower Upper
 85 100
 87 42.5 25.3 37.9#





#3

Chlorodifluoromethane

Concen: 0.276 ppbv

RT: 1.473 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

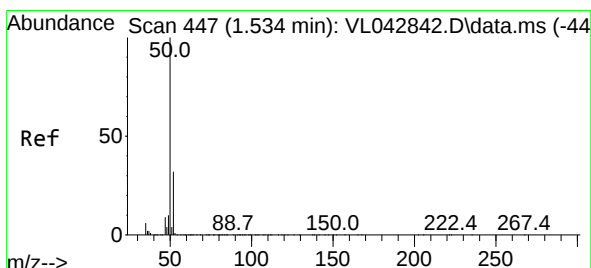
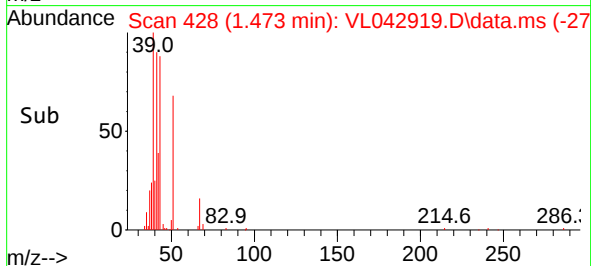
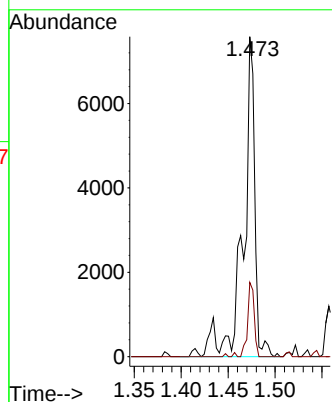
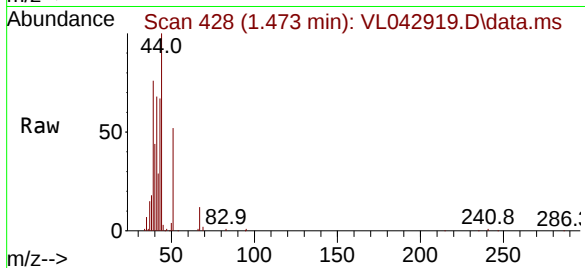
SV2

Tgt Ion: 51 Resp: 6459

Ion Ratio Lower Upper

51 100

67 13.7 14.9 22.3#



#4

Chloromethane

Concen: 0.212 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.003 min

Lab File: VL042919.D

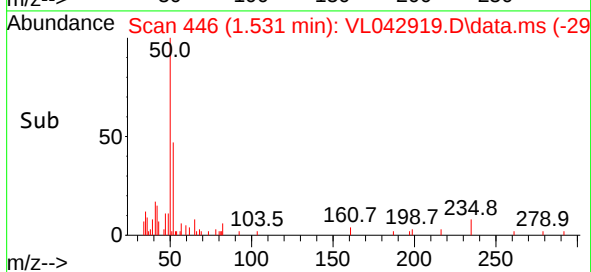
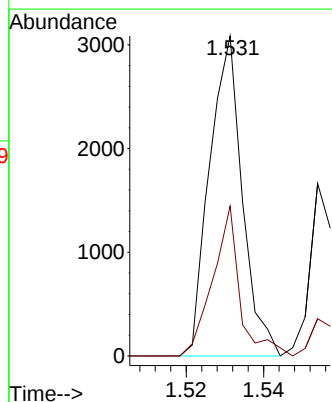
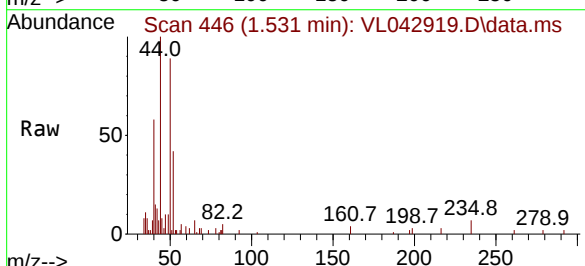
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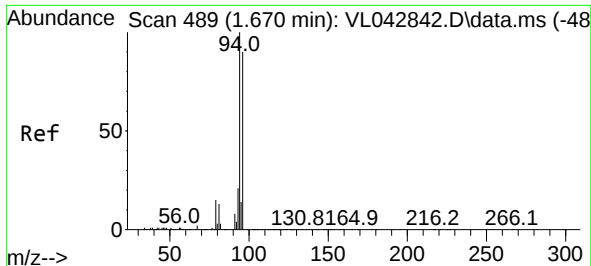
Tgt Ion: 50 Resp: 1809

Ion Ratio Lower Upper

50 100

52 46.9 25.9 38.9#

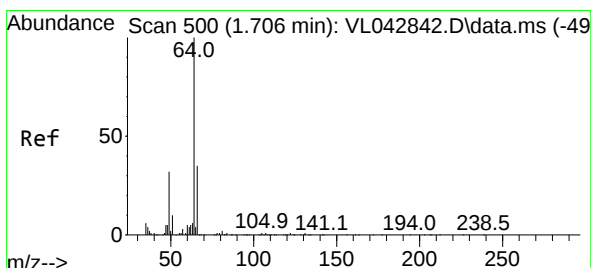
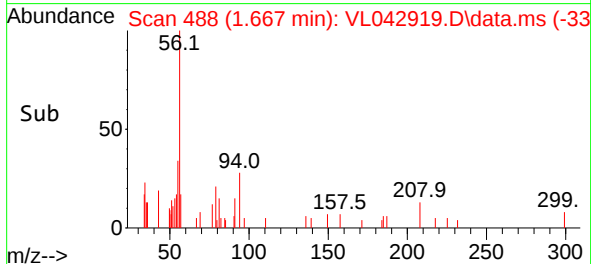
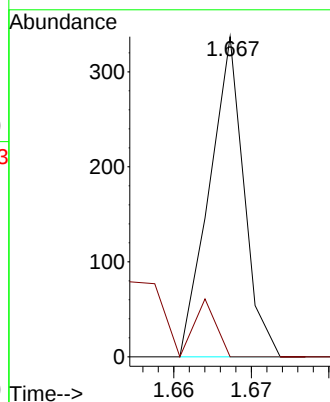
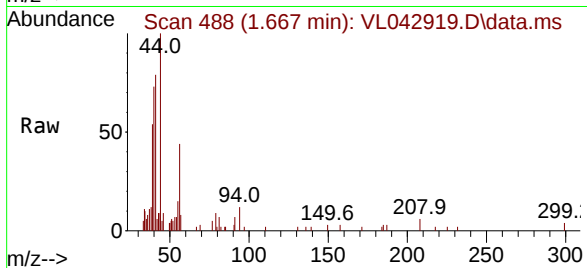




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

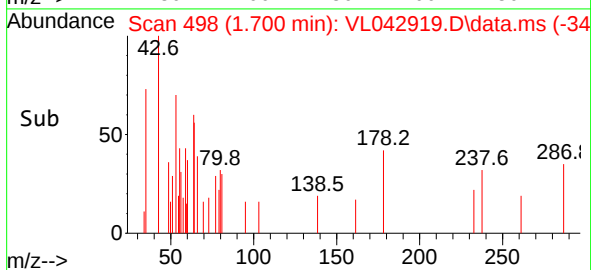
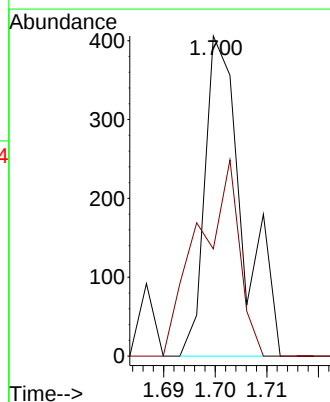
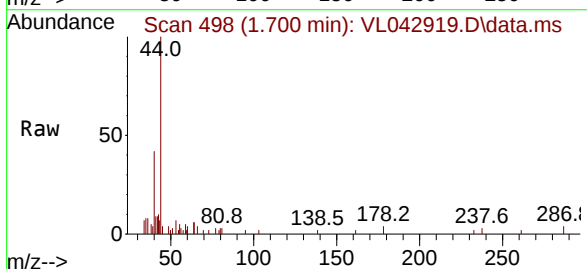
Instrument :
MSVOA_L
ClientSampleId :
SV2

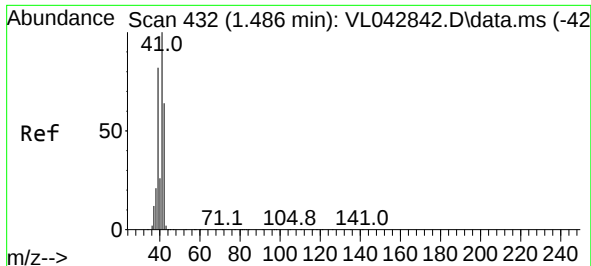
Tgt Ion: 94 Resp: 104
Ion Ratio Lower Upper
94 100
96 0.0 72.1 108.1#



#7
Chloroethane
Concen: 0.063 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 64 Resp: 206
Ion Ratio Lower Upper
64 100
66 33.5 28.6 42.8





#9

Propene

Concen: 5.815 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

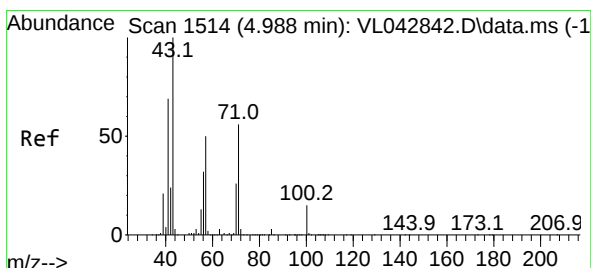
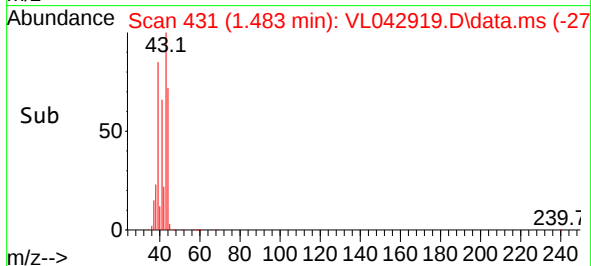
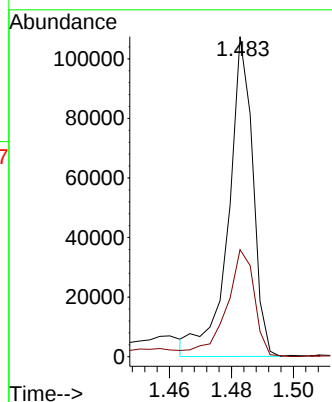
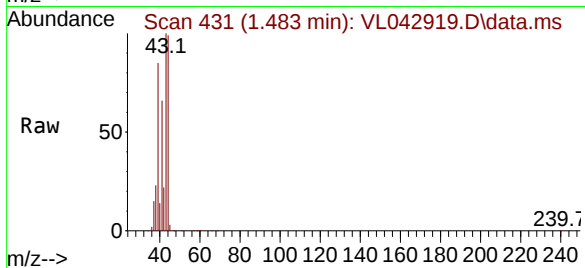
SV2

Tgt Ion: 41 Resp: 58817

Ion Ratio Lower Upper

41 100

42 45.5 53.0 79.4#



#10

Heptane

Concen: 3.976 ppbv

RT: 4.969 min Scan# 1508

Delta R.T. 0.010 min

Lab File: VL042919.D

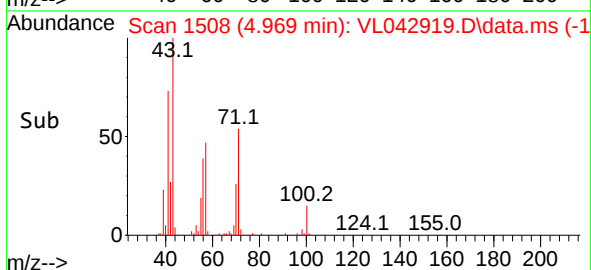
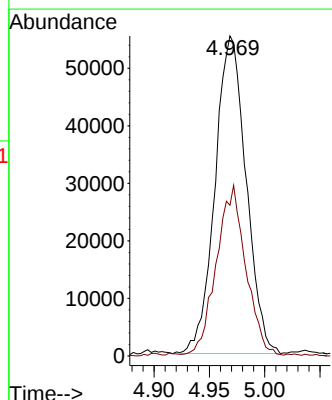
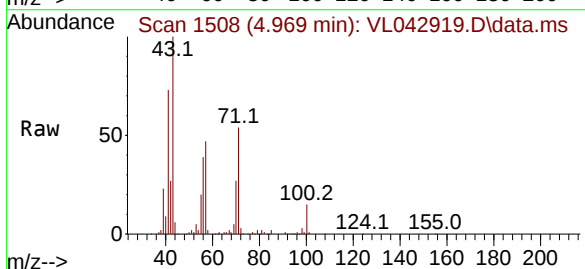
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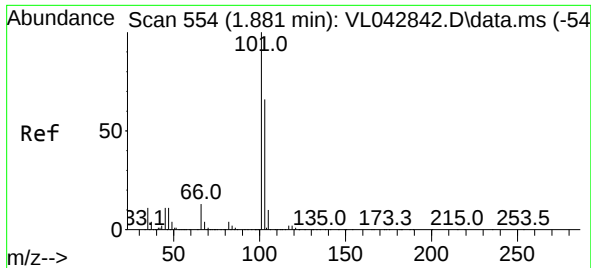
Tgt Ion: 43 Resp: 107718

Ion Ratio Lower Upper

43 100

57 51.9 41.4 62.0

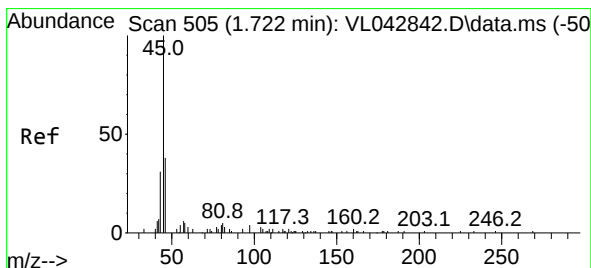
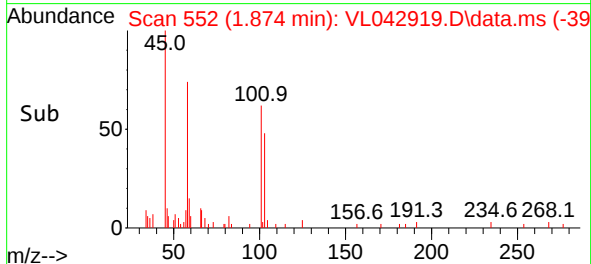
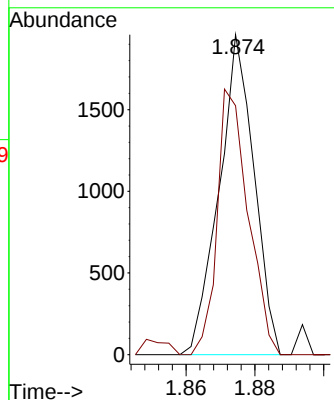
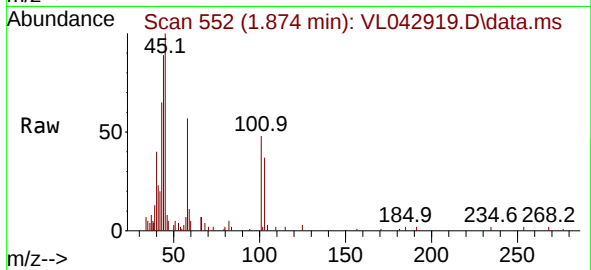




#11
Trichlorofluoromethane
Concen: 0.066 ppbv
RT: 1.874 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

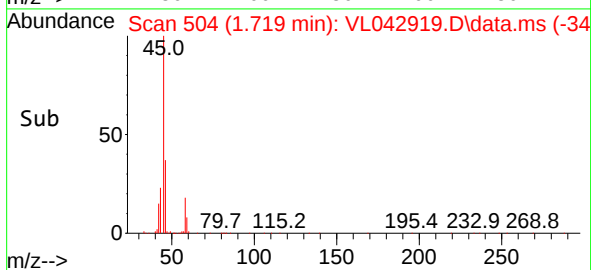
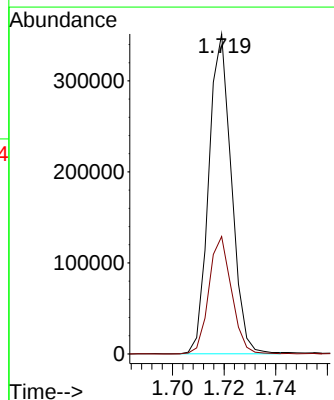
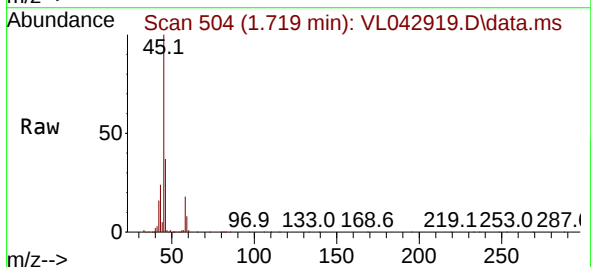
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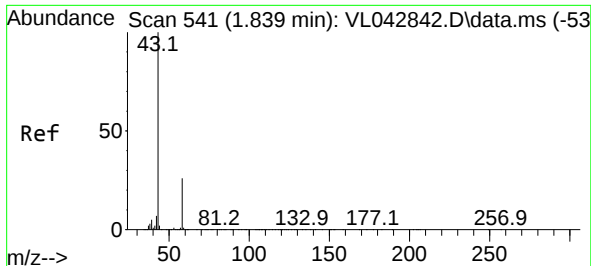
Tgt Ion:101 Resp: 1385
Ion Ratio Lower Upper
101 100
103 73.9 52.5 78.7



#13
Ethanol
Concen: 232.157 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 45 Resp: 214709
Ion Ratio Lower Upper
45 100
46 37.2 17.5 69.9





#15

Acetone

Concen: 87.185 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

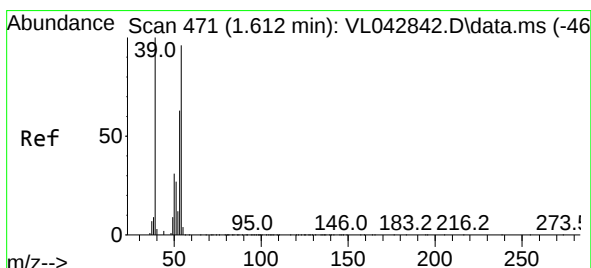
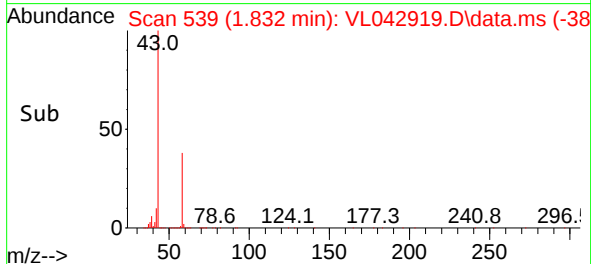
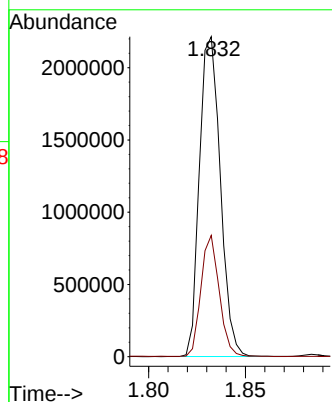
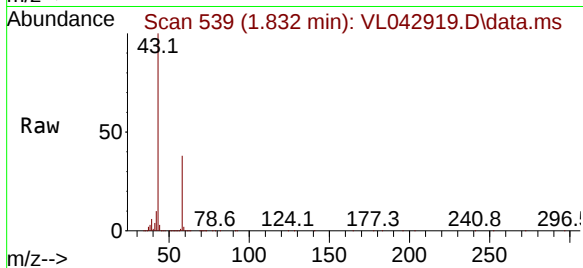
SV2

Tgt Ion: 43 Resp: 1667412

Ion Ratio Lower Upper

43 100

58 33.1 22.4 33.6



#16

1,3-Butadiene

Concen: 1.709 ppbv

RT: 1.596 min Scan# 466

Delta R.T. -0.006 min

Lab File: VL042919.D

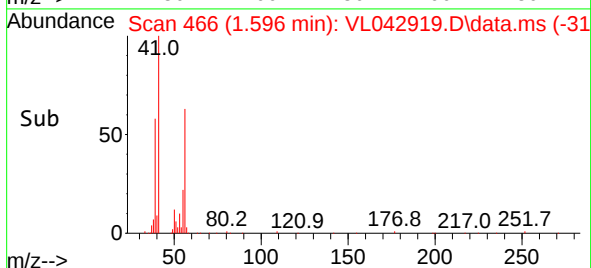
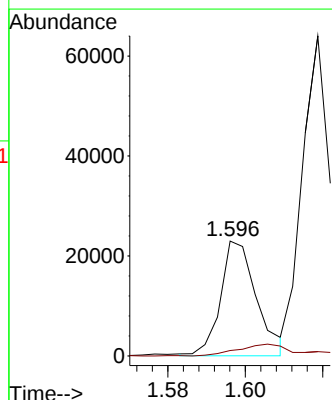
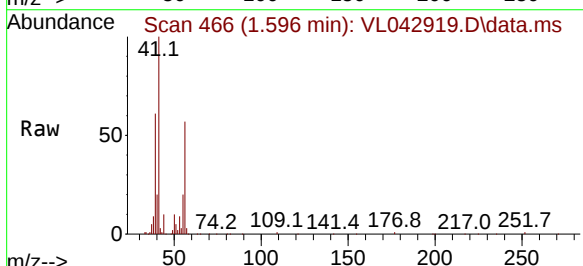
Acq: 09 Sep 2025 08:57

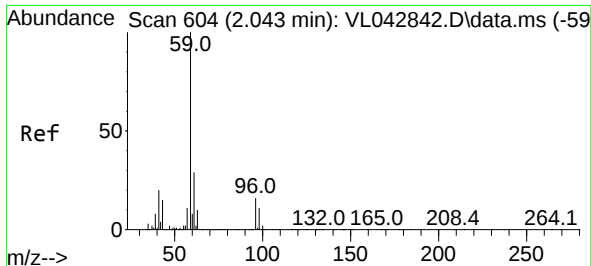
Tgt Ion: 39 Resp: 14814

Ion Ratio Lower Upper

39 100

54 17.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 0.674 ppbv

RT: 2.039 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

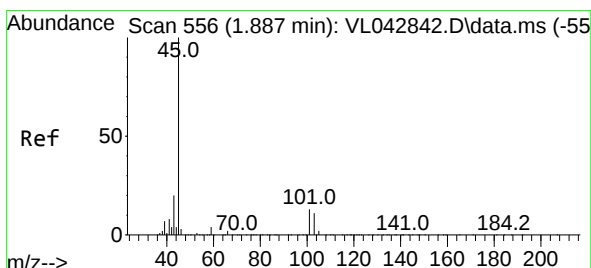
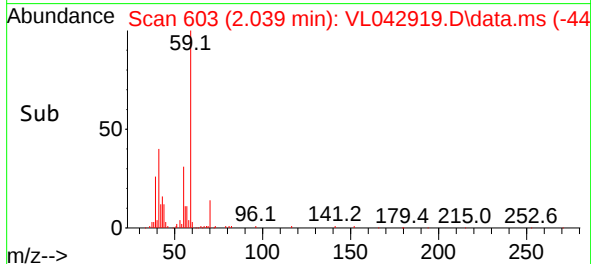
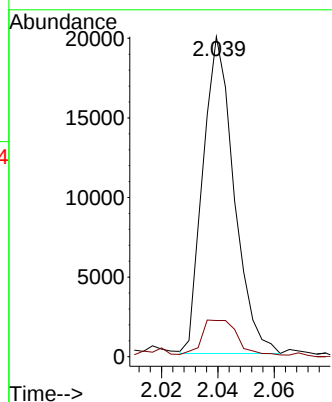
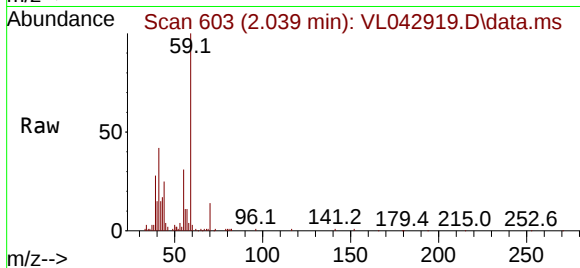
SV2

Tgt Ion: 59 Resp: 15284

Ion Ratio Lower Upper

59 100

57 17.2 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 3.617 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042919.D

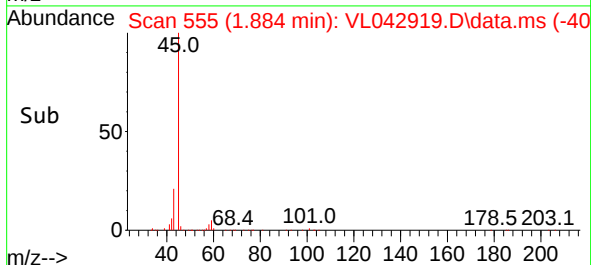
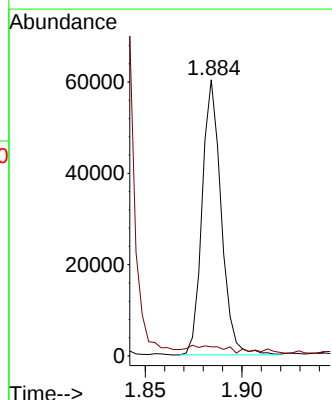
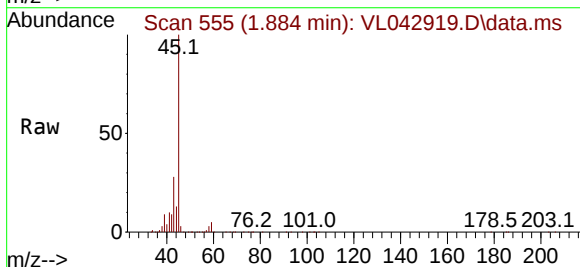
Acq: 09 Sep 2025 08:57

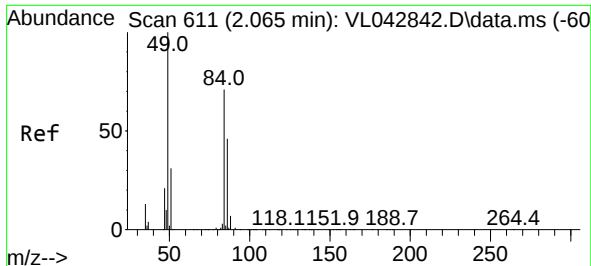
Tgt Ion: 45 Resp: 41320

Ion Ratio Lower Upper

45 100

58 0.0 32.7 49.1#

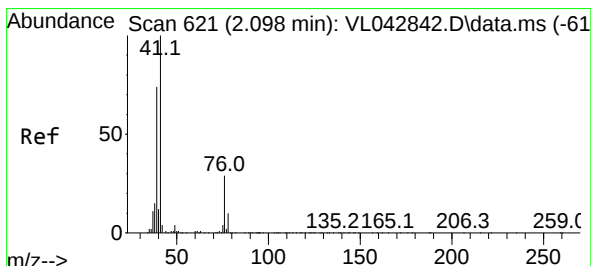
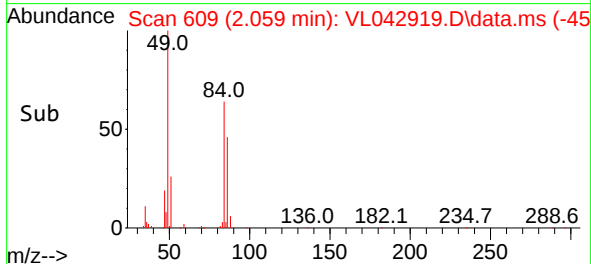
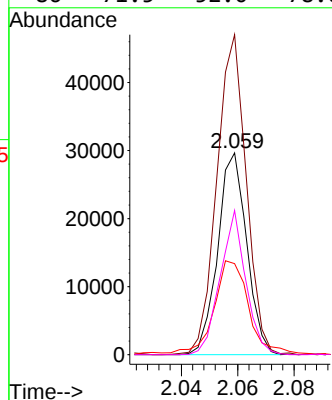
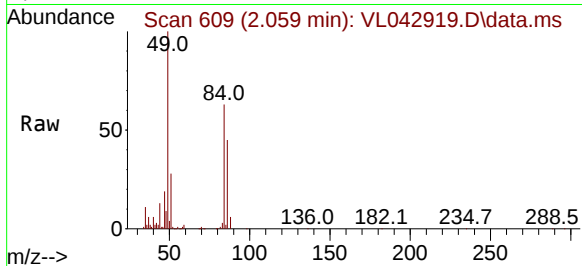




#20
Methylene Chloride
Concen: 2.650 ppbv
RT: 2.059 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

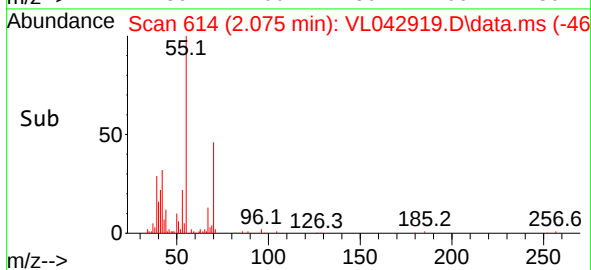
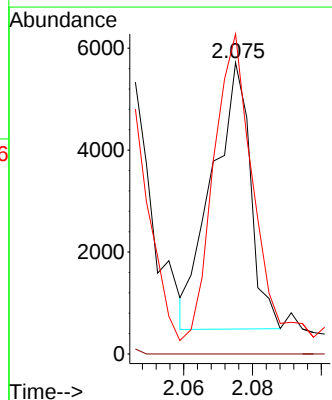
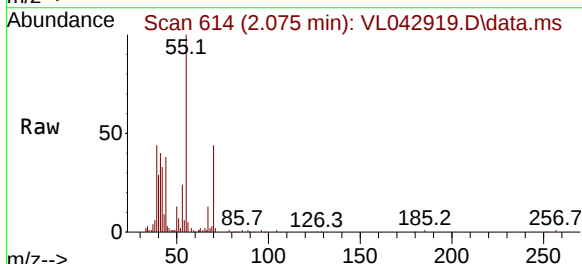
Instrument :
MSVOA_L
ClientSampleId :
SV2

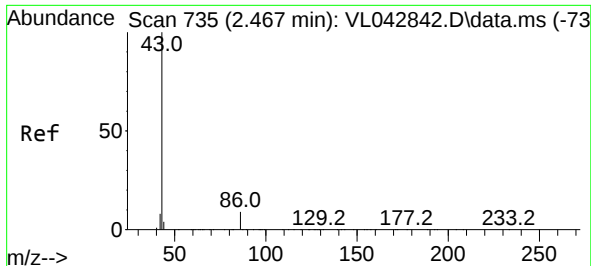
Tgt Ion: 84	Resp: 21228
Ion Ratio	Lower Upper
84 100	
49 158.1	112.3 168.5
51 42.6	36.0 54.0
86 71.5	52.0 78.0



#21
Allyl Chloride
Concen: 0.297 ppbv
RT: 2.075 min Scan# 614
Delta R.T. -0.013 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 41	Resp: 4016		
Ion Ratio	Lower	Upper	
41 100			
76 362.5	23.9	35.9#	
39 139.9	57.8	86.6#	

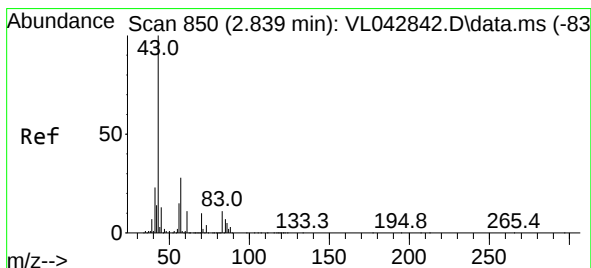
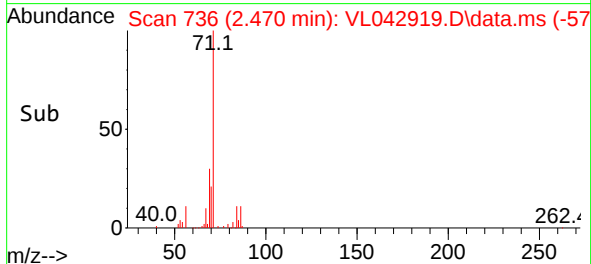
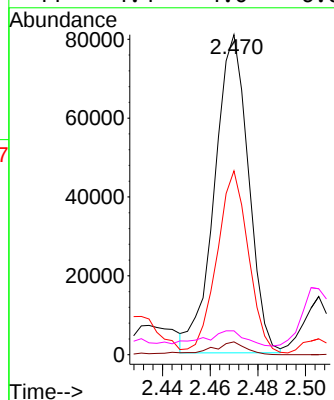
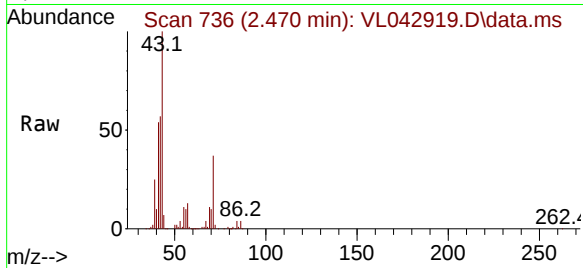




#23
 Vinyl Acetate
 Concen: 3.029 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

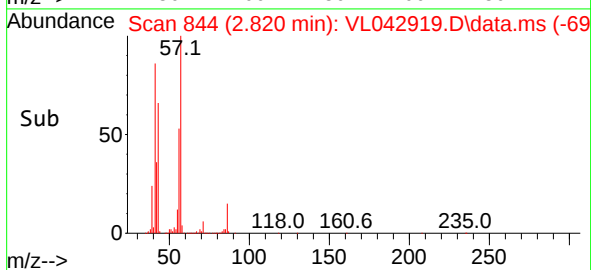
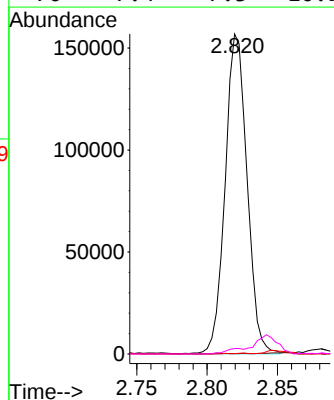
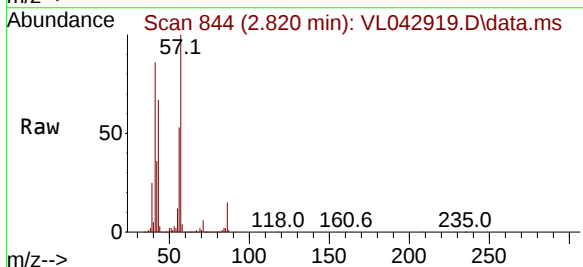
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

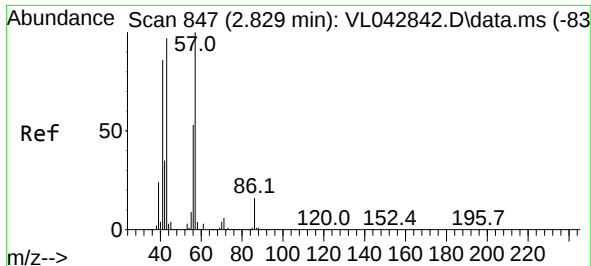
Tgt Ion:	43	Resp:	79656
Ion	Ratio	Lower	Upper
43	100		
86	4.1	6.6	9.8#
42	57.8	7.0	10.6#
44	4.4	4.0	6.0



#25
 Ethyl Acetate
 Concen: 3.664 ppbv
 RT: 2.820 min Scan# 844
 Delta R.T. -0.006 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

Tgt Ion:	43	Resp:	169606
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.1	12.1#
61	1.4	7.4	11.2#
70	7.4	7.3	10.9

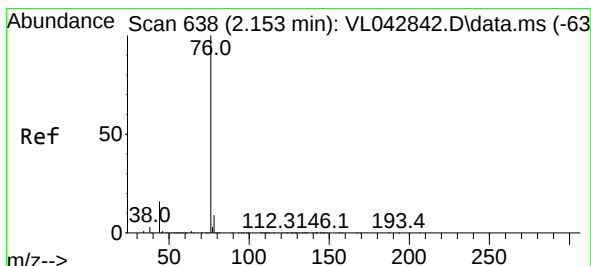
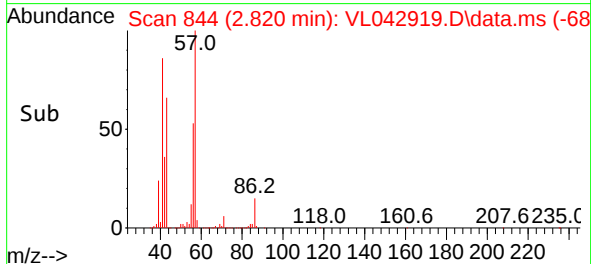
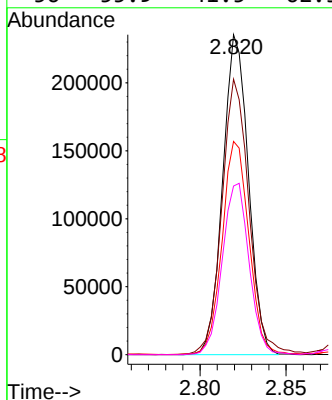
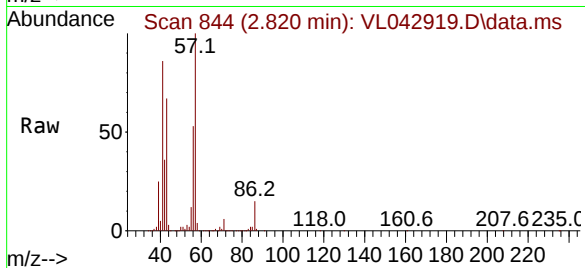




#26
Hexane
Concen: 11.444 ppbv
RT: 2.820 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

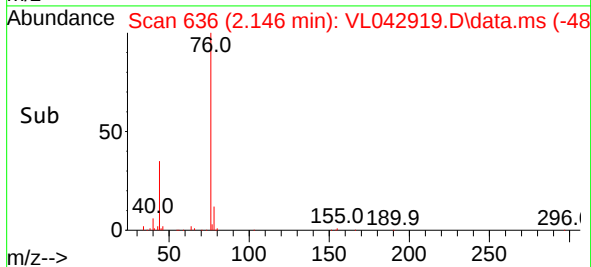
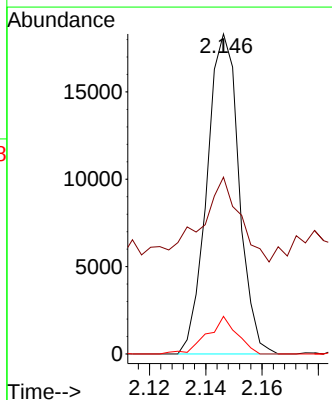
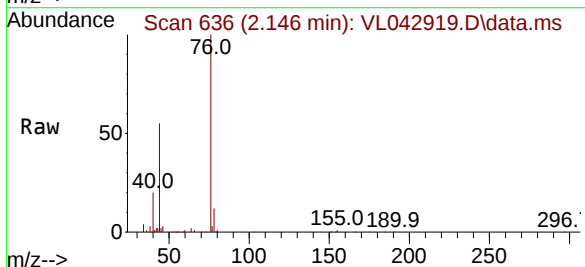
Instrument :
MSVOA_L
ClientSampleId :
SV2

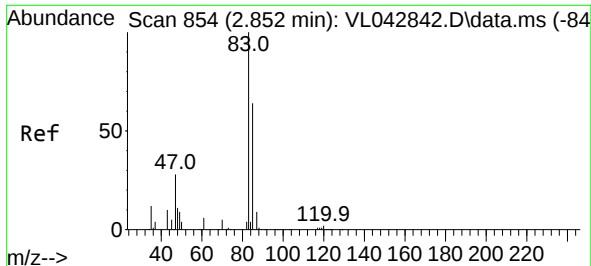
Tgt Ion: 57 Resp: 244507
Ion Ratio Lower Upper
57 100
41 91.4 68.6 103.0
43 69.1 168.5 252.7#
56 55.9 41.5 62.3



#27
Carbon Disulfide
Concen: 0.696 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 76 Resp: 14480
Ion Ratio Lower Upper
76 100
44 73.7 15.9 23.9#
78 10.9 9.5 14.3





#29

Chloroform

Concen: 31.802 ppbv

RT: 2.842 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

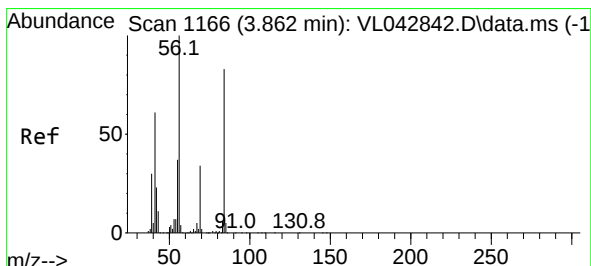
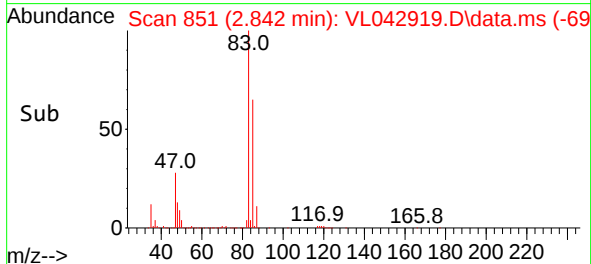
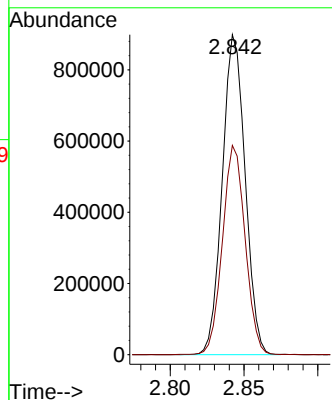
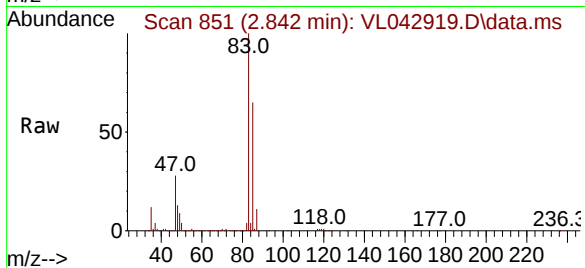
SV2

Tgt Ion: 83 Resp: 970090

Ion Ratio Lower Upper

83 100

85 65.4 51.1 76.7



#30

Cyclohexane

Concen: 0.175 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.013 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

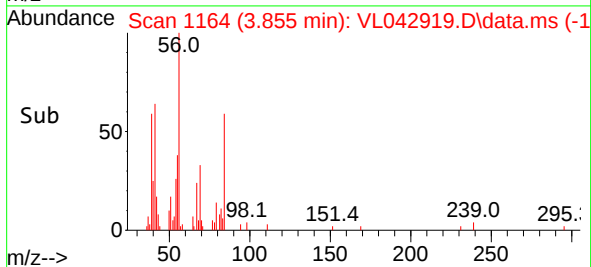
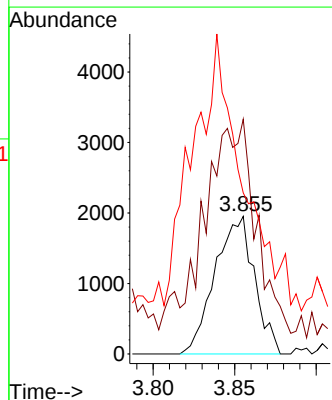
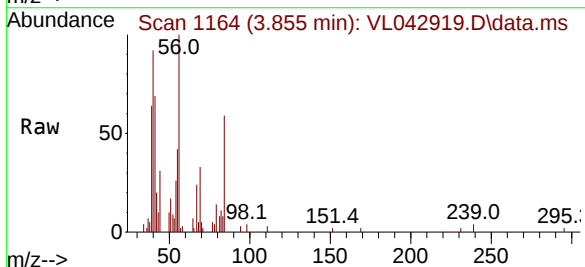
Tgt Ion: 84 Resp: 3284

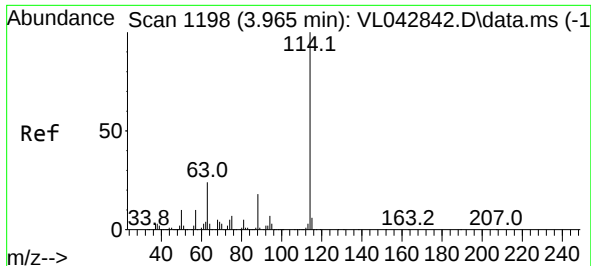
Ion Ratio Lower Upper

84 100

56 230.4 98.8 148.2#

41 371.7 61.3 91.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

SV2

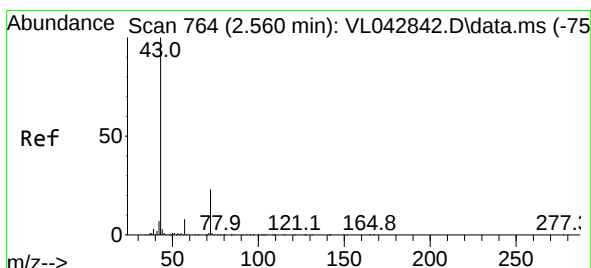
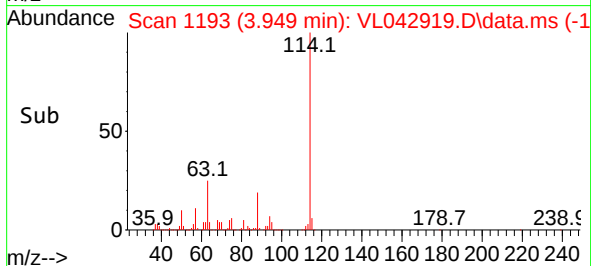
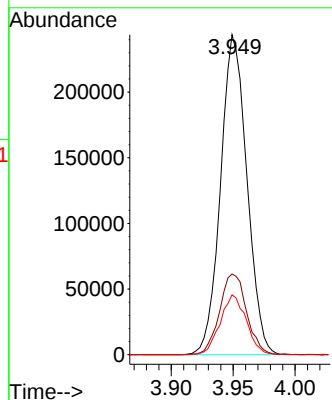
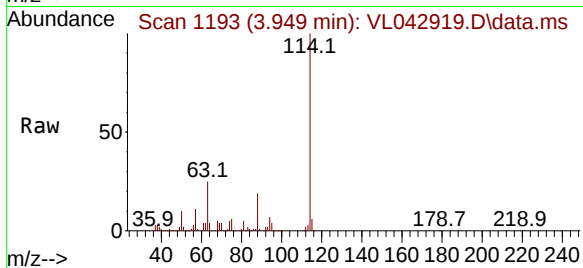
Tgt Ion:114 Resp: 360549

Ion Ratio Lower Upper

114 100

63 26.0 19.7 29.5

88 18.5 14.4 21.6



#34

2-Butanone

Concen: 2.148 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042919.D

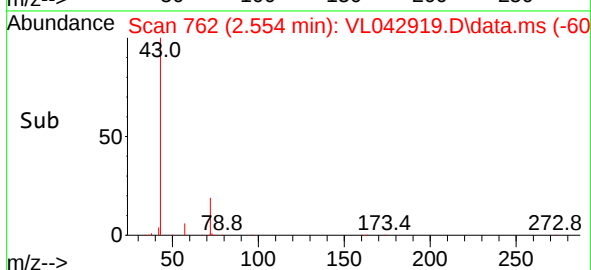
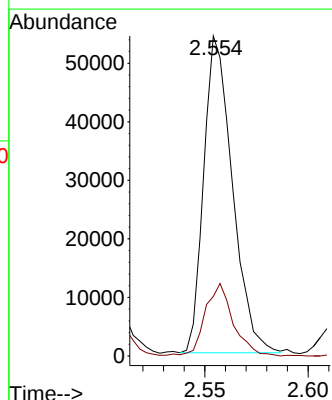
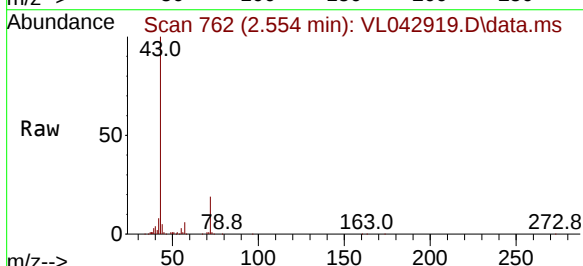
Acq: 09 Sep 2025 08:57

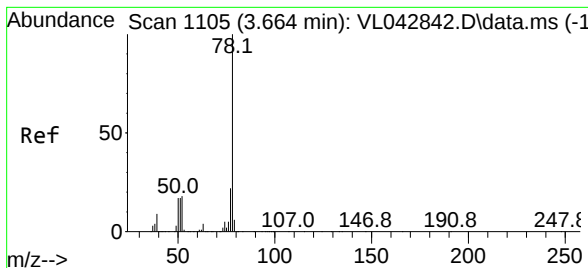
Tgt Ion: 43 Resp: 52283

Ion Ratio Lower Upper

43 100

72 22.5 18.6 28.0





#36

Benzene

Concen: 0.325 ppbv

RT: 3.648 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

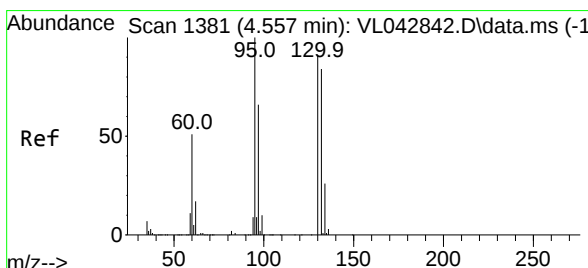
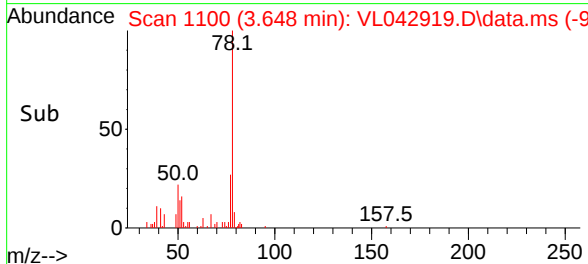
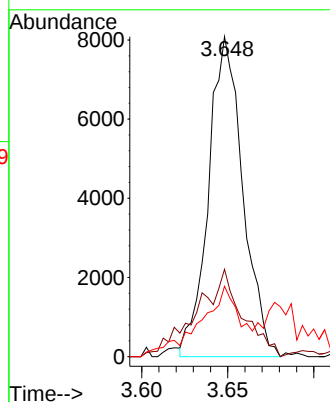
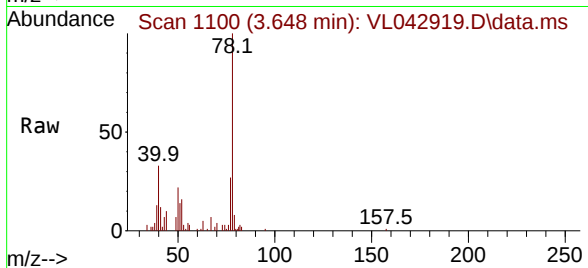
MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 78 Resp: 11227

Ion	Ratio	Lower	Upper
78	100		
77	27.3	17.7	26.5#
50	18.5	13.9	20.9



#38

Trichloroethene

Concen: 0.086 ppbv

RT: 4.545 min Scan# 1377

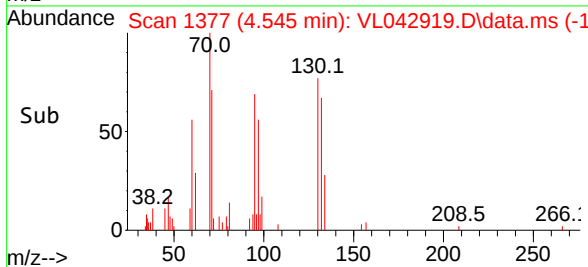
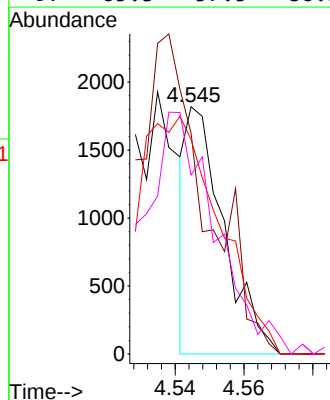
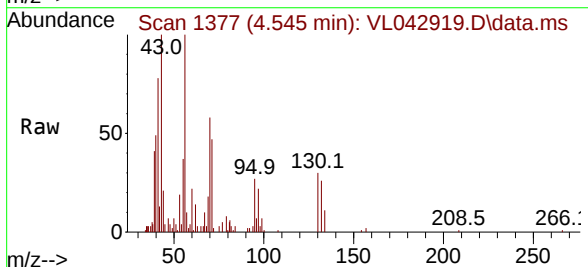
Delta R.T. 0.013 min

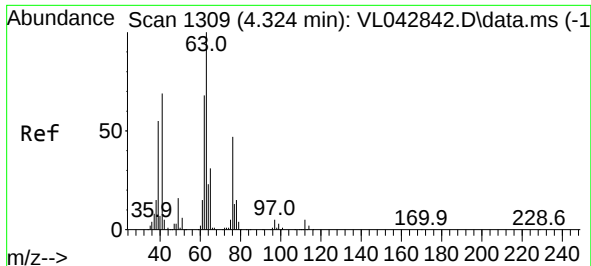
Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Tgt Ion: 130 Resp: 1350

Ion	Ratio	Lower	Upper
130	100		
95	89.3	87.6	131.4
132	86.8	73.8	110.8
97	65.3	57.5	86.3





#39

1,2-Dichloropropane

Concen: 7.412 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

SV2

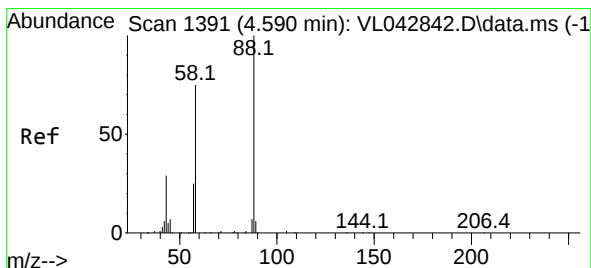
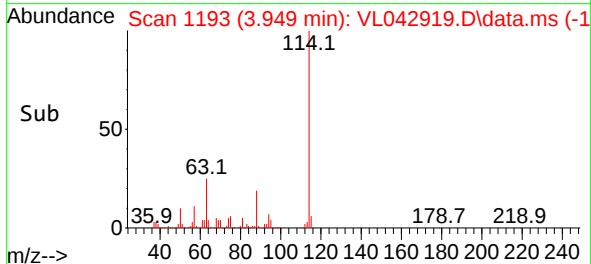
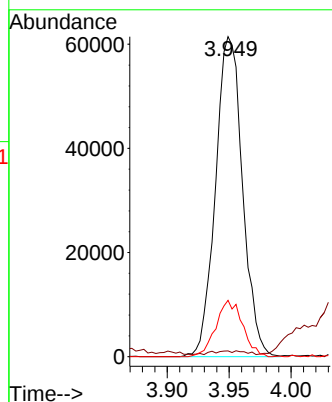
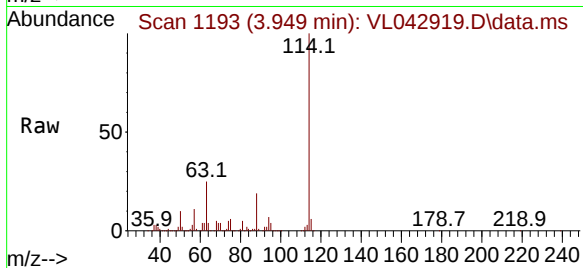
Tgt Ion: 63 Resp: 93466

Ion Ratio Lower Upper

63 100

41 0.4 55.0 82.4#

62 17.6 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.270 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.023 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Tgt Ion: 88 Resp: 1619

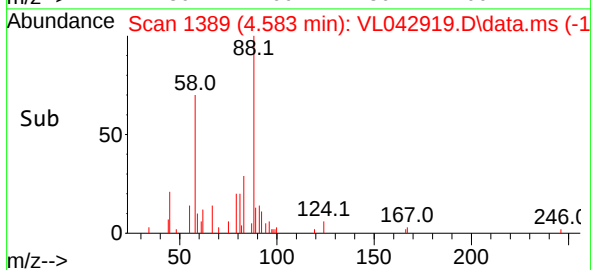
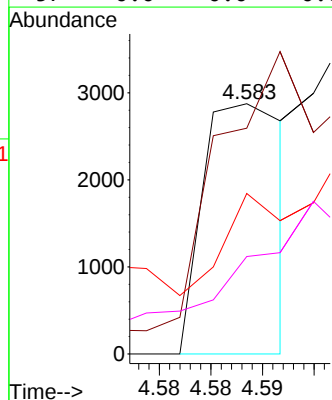
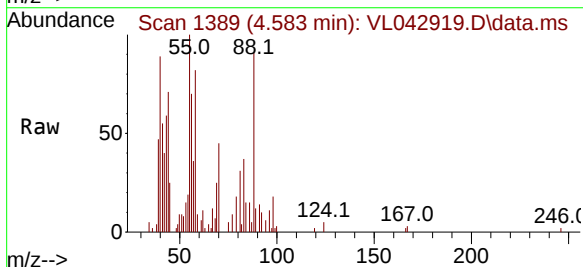
Ion Ratio Lower Upper

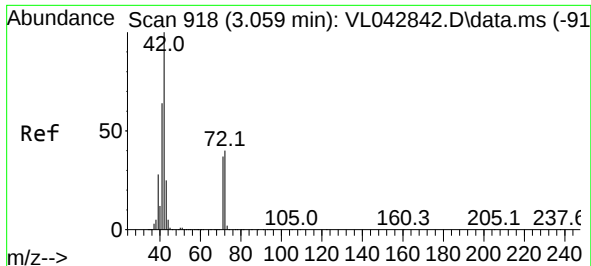
88 100

58 437.6 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

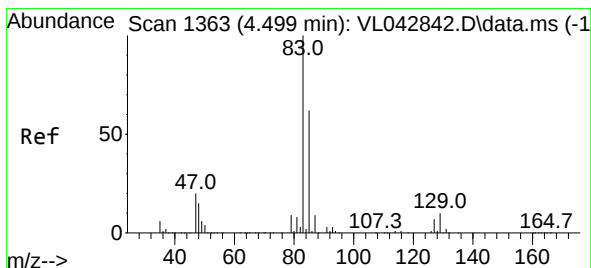
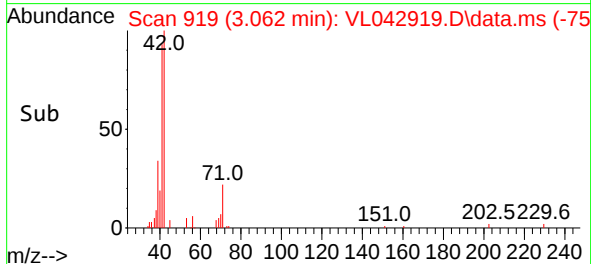
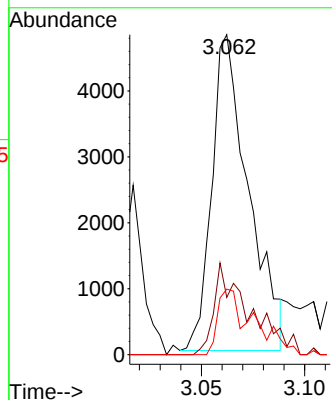
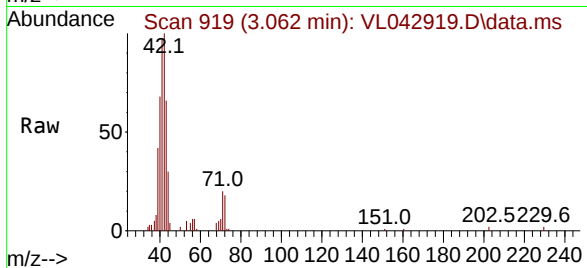




#41
Tetrahydrofuran
Concen: 0.436 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.019 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

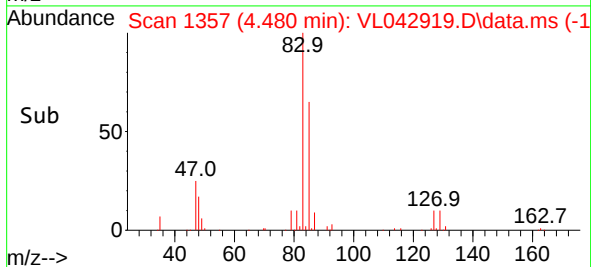
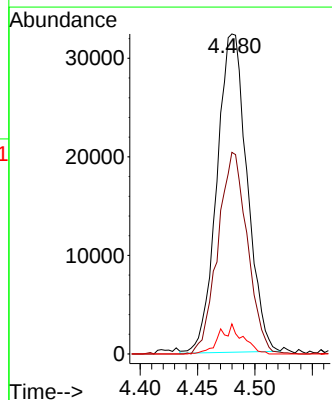
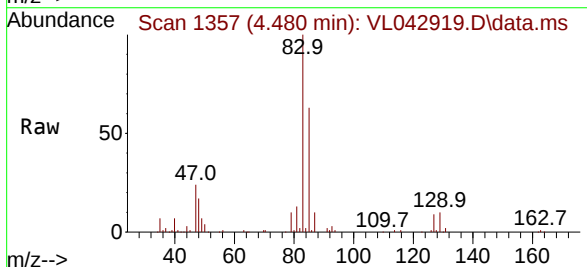
Instrument :
MSVOA_L
ClientSampleId :
SV2

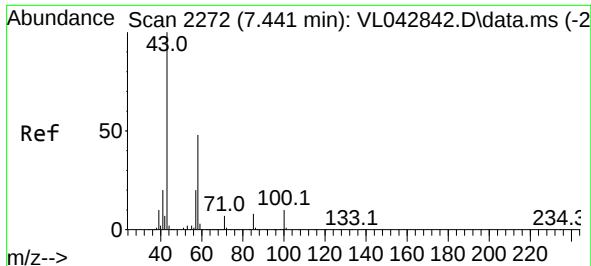
Tgt Ion: 42 Resp: 5920
Ion Ratio Lower Upper
42 100
72 28.5 32.6 48.8#
71 20.2 30.0 45.0#



#42
Bromodichloromethane
Concen: 2.201 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 83 Resp: 59157
Ion Ratio Lower Upper
83 100
85 63.6 49.8 74.8
127 9.5 5.8 8.6#

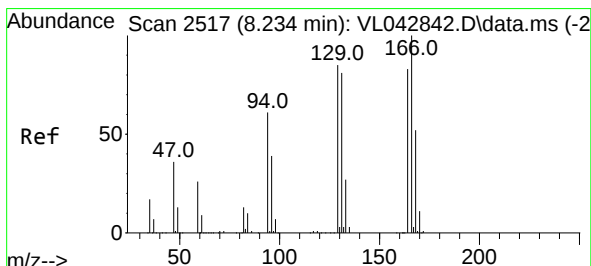
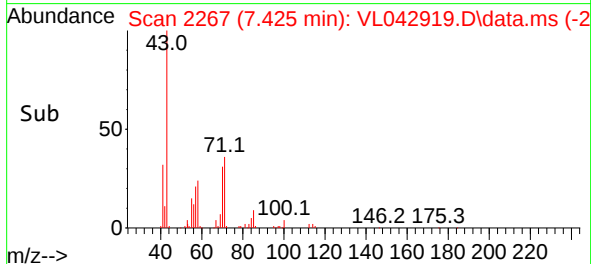
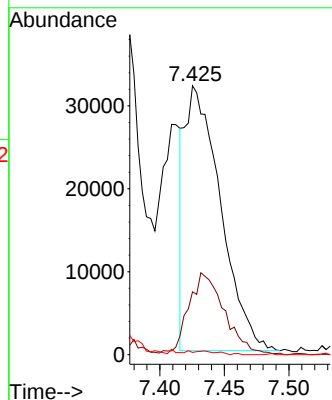
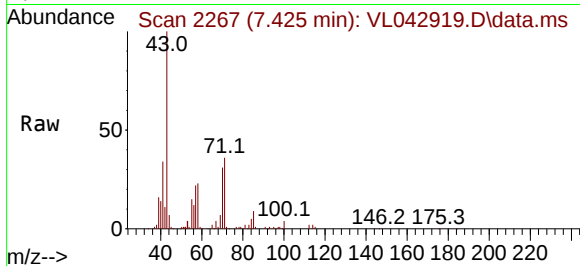




#51
2-Hexanone
Concen: 2.377 ppbv
RT: 7.425 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

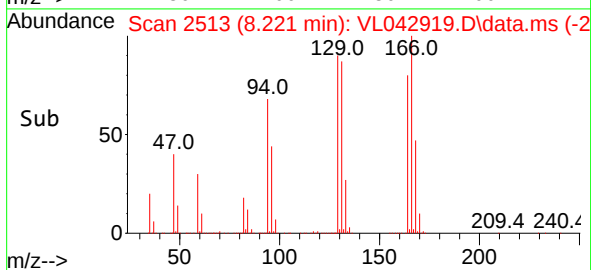
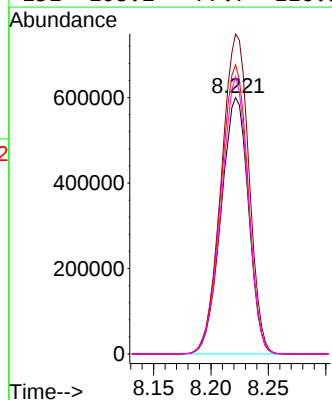
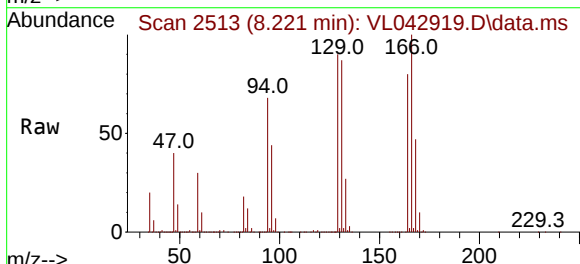
Instrument :
MSVOA_L
ClientSampleId :
SV2

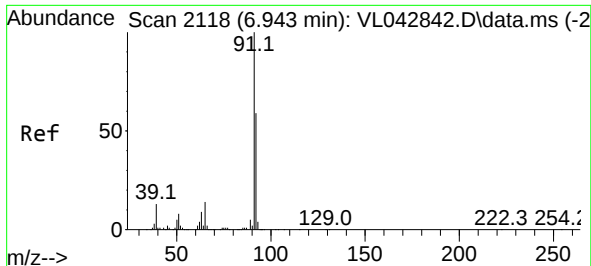
Tgt Ion: 43 Resp: 61555
Ion Ratio Lower Upper
43 100
58 31.4 41.0 61.6#
98 1.6 0.1 0.1#



#52
Tetrachloroethene
Concen: 79.835 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 164 Resp: 997149
Ion Ratio Lower Upper
164 100
166 124.9 96.5 144.7
129 112.8 81.8 122.6
131 108.2 77.7 116.5

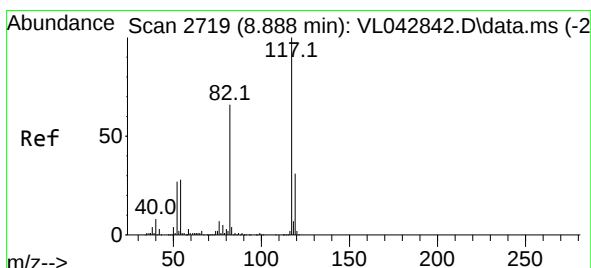
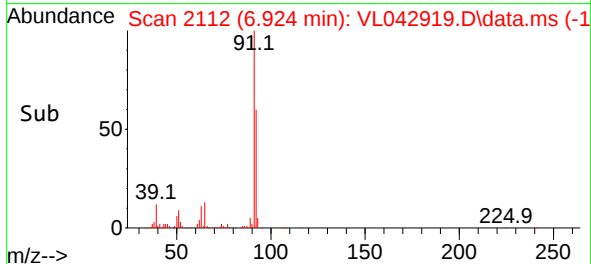
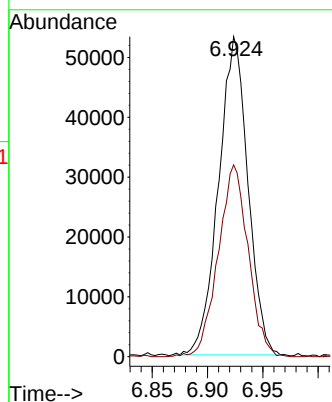
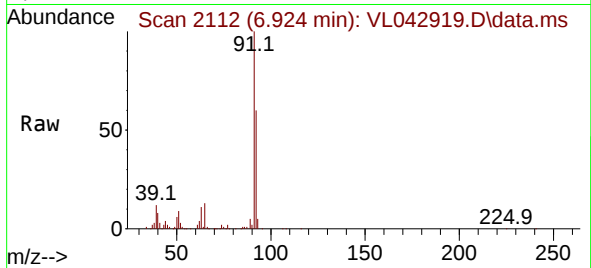




#53
Toluene
Concen: 2.396 ppbv
RT: 6.924 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

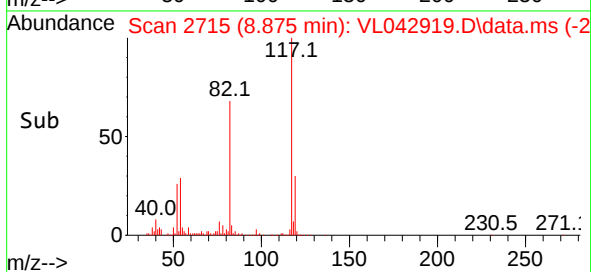
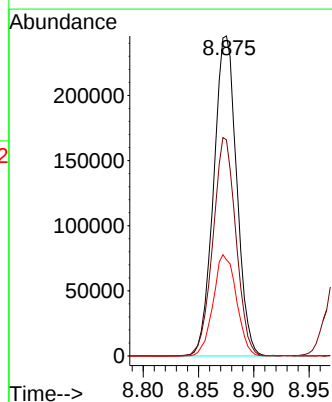
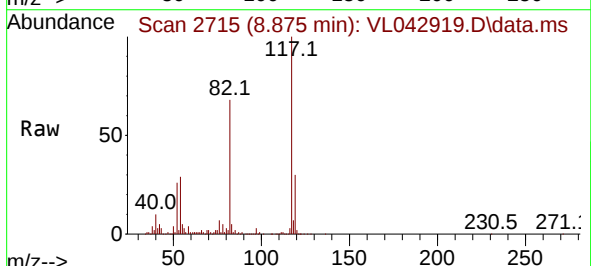
Instrument :
MSVOA_L
ClientSampleId :
SV2

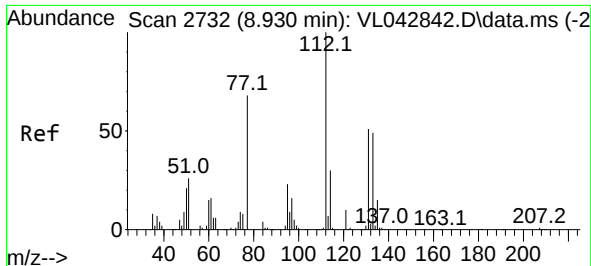
Tgt Ion: 91 Resp: 98360
Ion Ratio Lower Upper
91 100
92 61.5 47.8 71.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.007 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 117 Resp: 354559
Ion Ratio Lower Upper
117 100
82 68.4 54.6 81.8
119 32.0 25.9 38.9

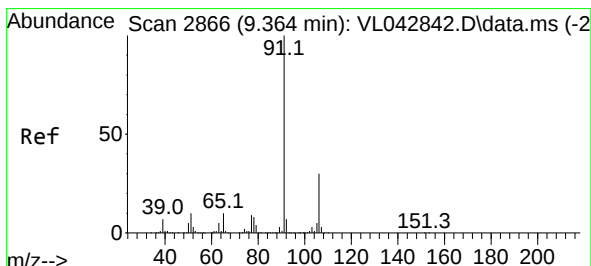
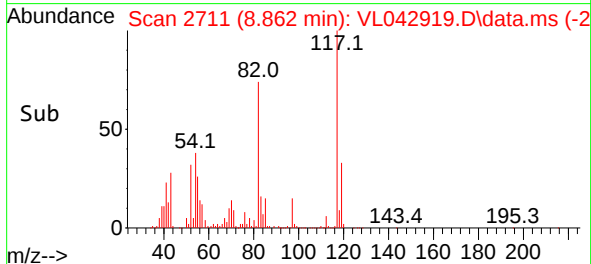
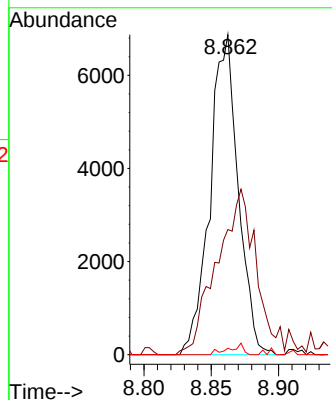
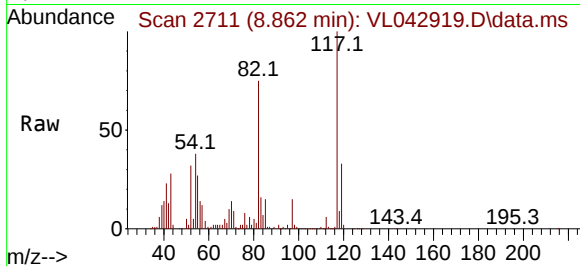




#57
Chlorobenzene
Concen: 0.297 ppbv
RT: 8.862 min Scan# 211
Delta R.T. -0.049 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

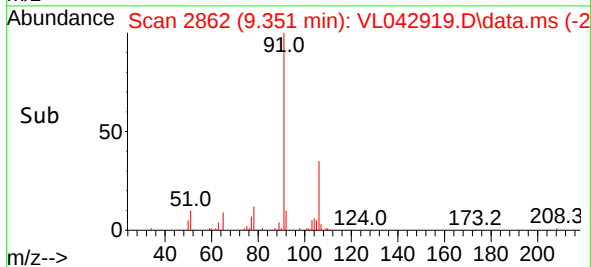
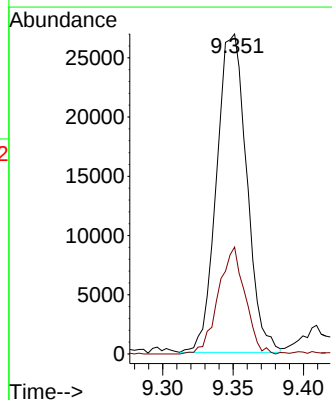
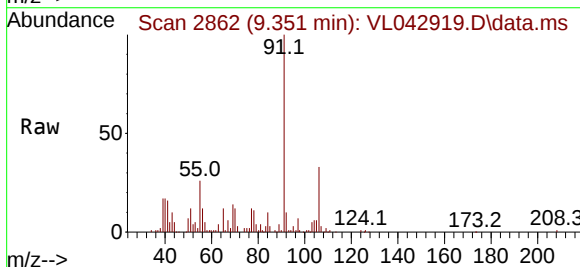
Instrument :
MSVOA_L
ClientSampleId :
SV2

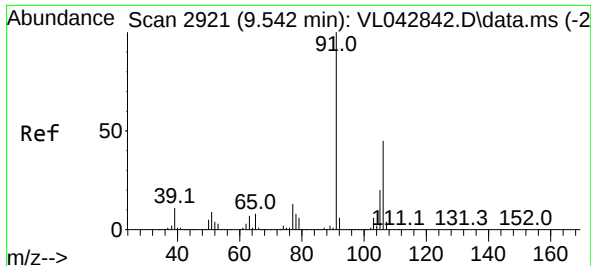
Tgt Ion:112 Resp: 10026
Ion Ratio Lower Upper
112 100
77 37.9 55.5 83.3#
114 2.0 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.641 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.007 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 91 Resp: 40095
Ion Ratio Lower Upper
91 100
106 33.2 23.9 35.9





#59

m/p-Xylene

Concen: 1.808 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.013 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

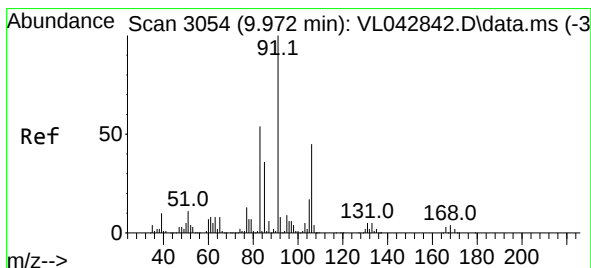
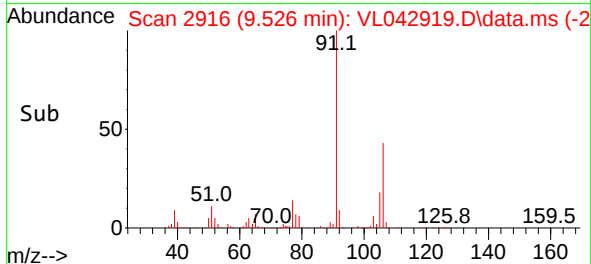
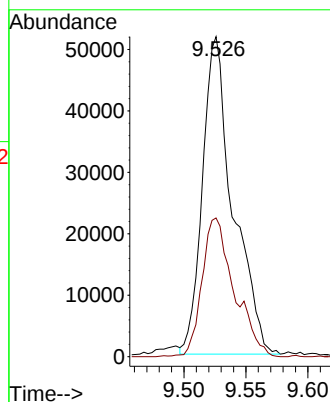
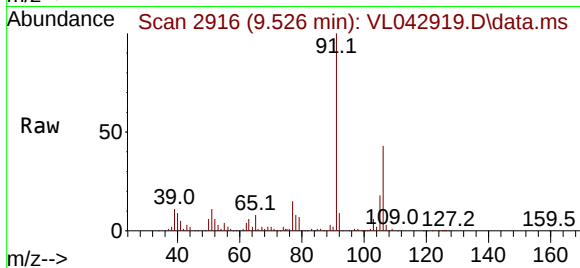
SV2

Tgt Ion: 91 Resp: 88677

Ion Ratio Lower Upper

91 100

106 46.0 0.0 0.0#



#60

o-Xylene

Concen: 0.879 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042919.D

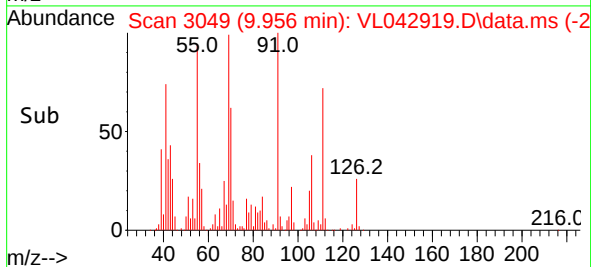
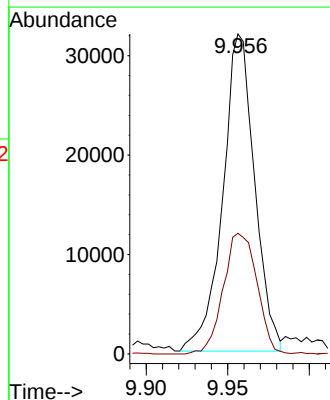
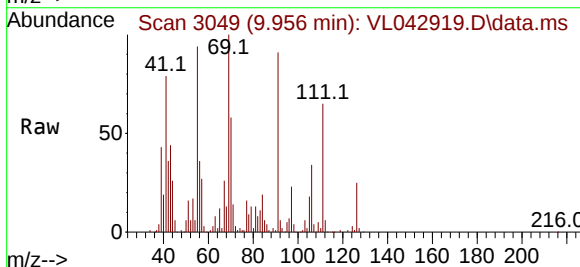
Acq: 09 Sep 2025 08:57

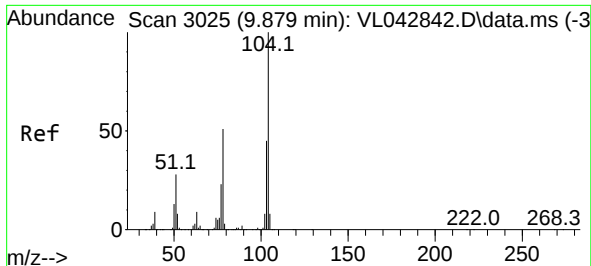
Tgt Ion: 91 Resp: 43341

Ion Ratio Lower Upper

91 100

106 40.3 21.8 65.4

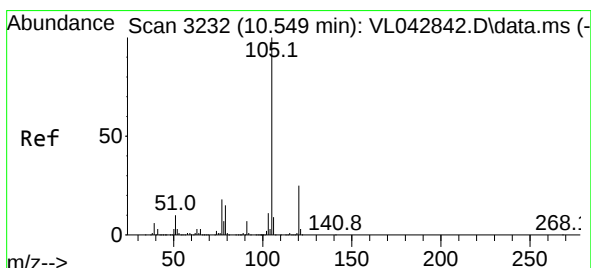
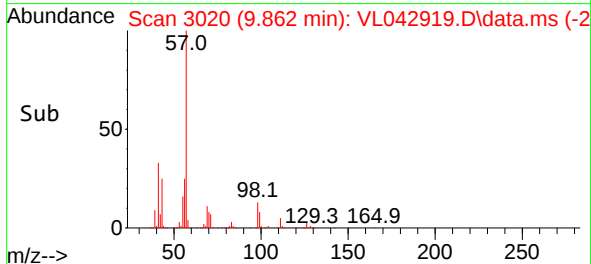
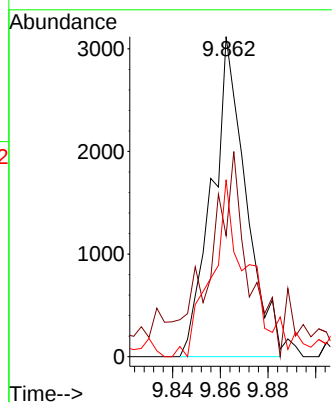
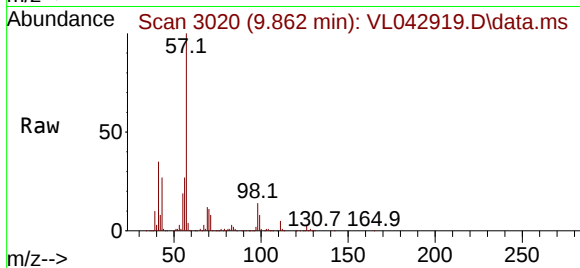




#61
Styrene
Concen: 0.134 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

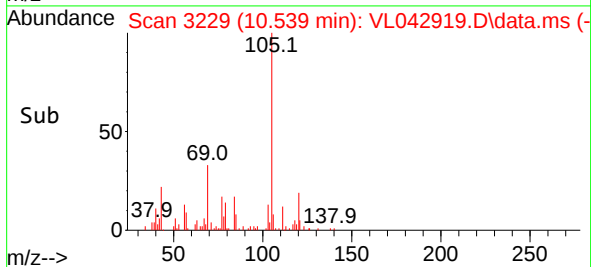
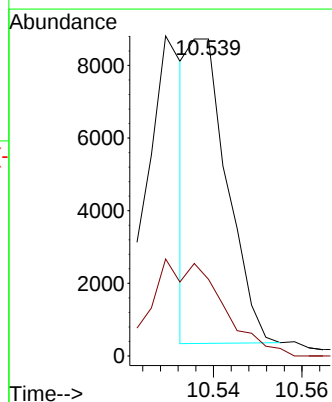
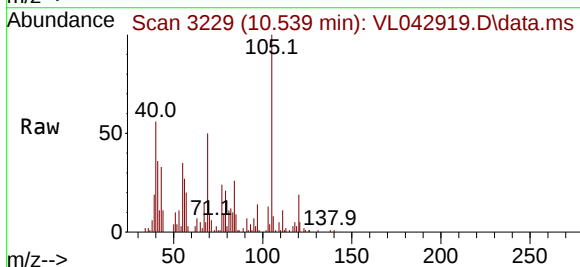
Instrument :
MSVOA_L
ClientSampleId :
SV2

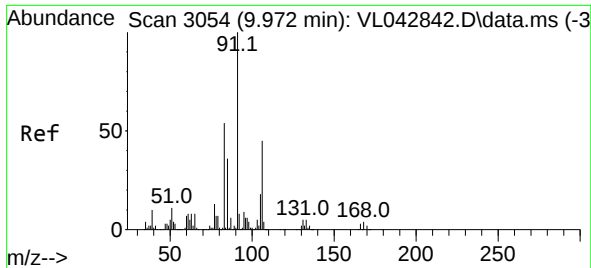
Tgt Ion:104 Resp: 3089
Ion Ratio Lower Upper
104 100
78 114.4 40.6 61.0#
103 69.0 37.7 56.5#



#62
Isopropylbenzene
Concen: 0.070 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.010 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion:105 Resp: 5055
Ion Ratio Lower Upper
105 100
120 0.0 20.6 30.8#

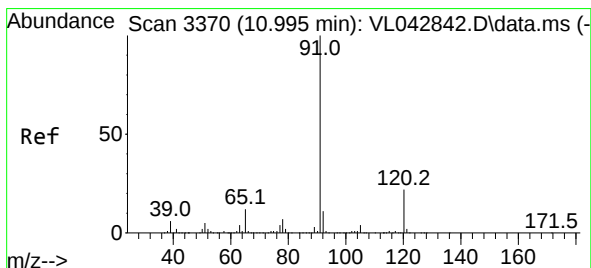
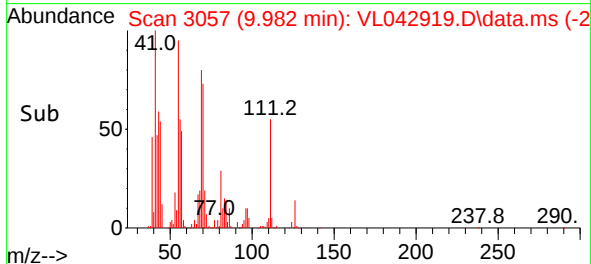
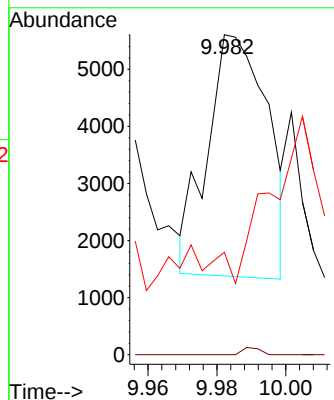
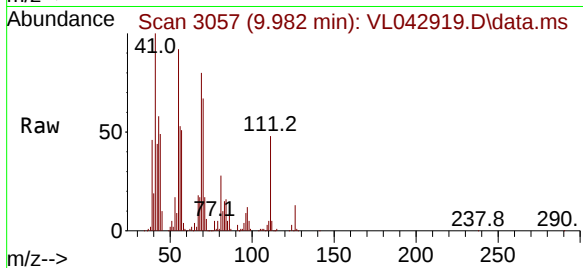




#63
1,1,2,2-Tetrachloroethane
Concen: 0.189 ppbv
RT: 9.982 min Scan# 3054
Delta R.T. 0.029 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

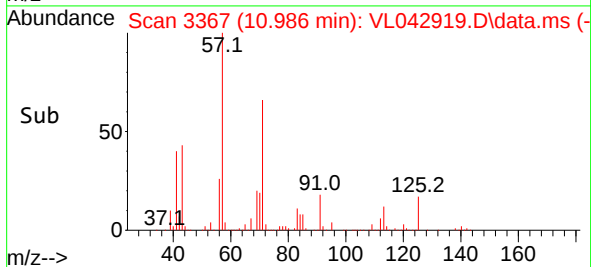
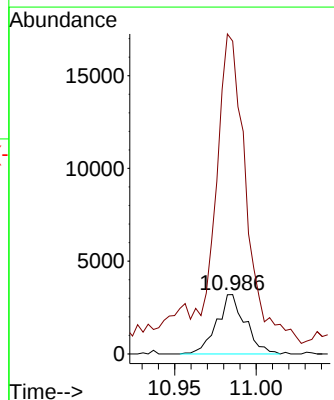
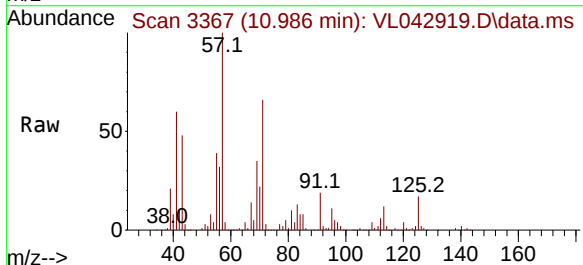
Instrument :
MSVOA_L
ClientSampleId :
SV2

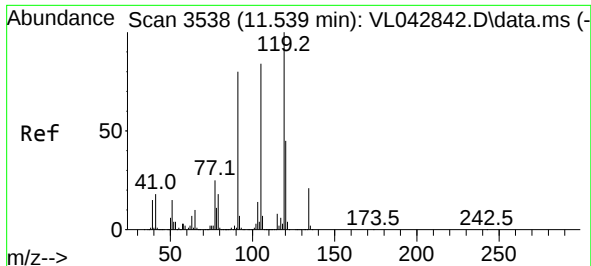
Tgt Ion: 83 Resp: 5135
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 0.0 32.3 96.8#



#64
n-propylbenzene
Concen: 0.211 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion:120 Resp: 3885
Ion Ratio Lower Upper
120 100
91 608.7 375.8 563.6#

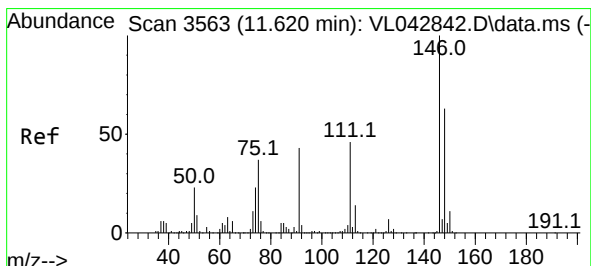
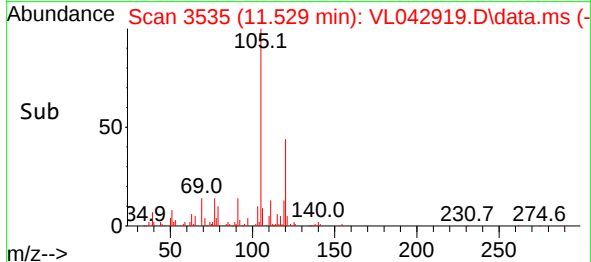
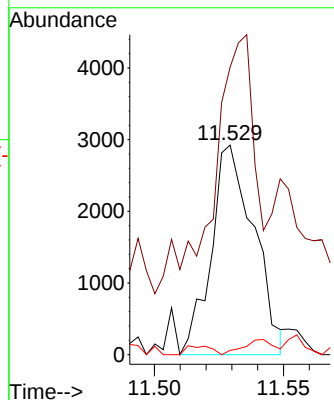
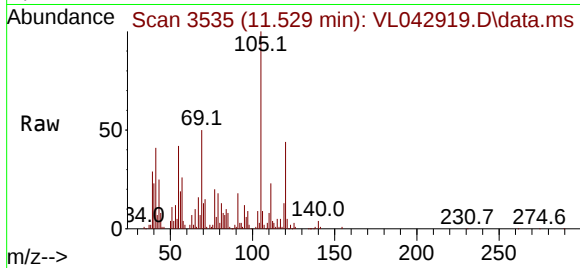




#65
tert-Butylbenzene
Concen: 0.053 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.007 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

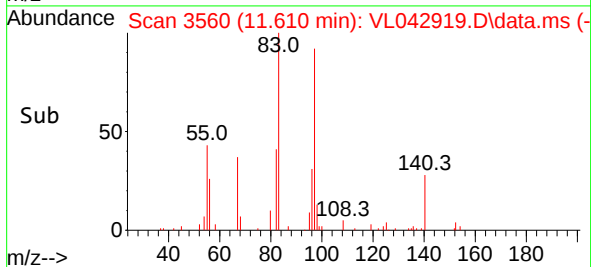
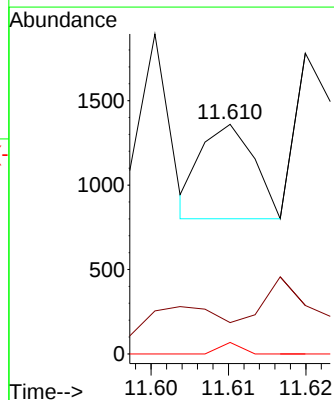
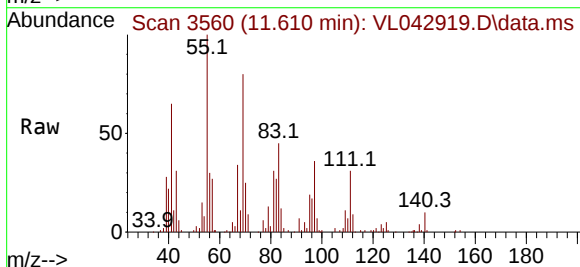
Instrument :
MSVOA_L
ClientSampleId :
SV2

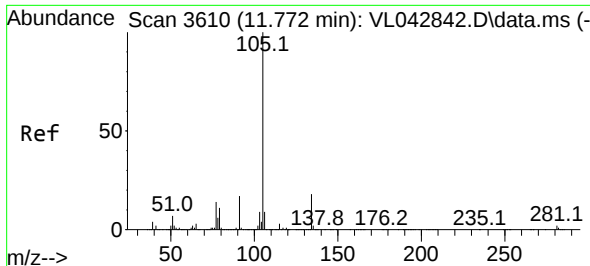
Tgt Ion:119 Resp: 3360
Ion Ratio Lower Upper
119 100
91 187.9 63.9 95.9#
134 0.0 17.0 25.4#



#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion: 91 Resp: 265
Ion Ratio Lower Upper
91 100
126 303.8 14.2 21.4#
128 0.0 5.0 7.6#

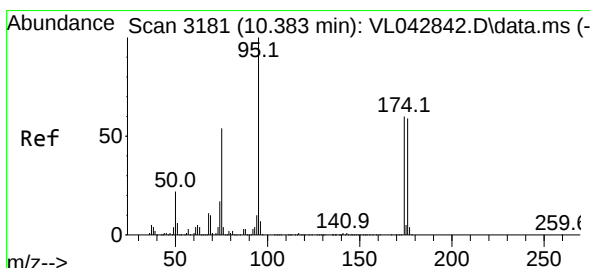
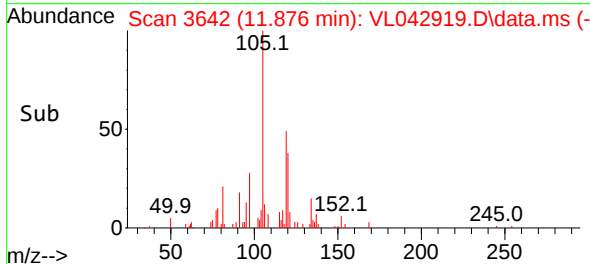
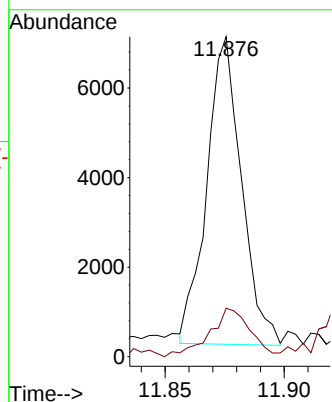
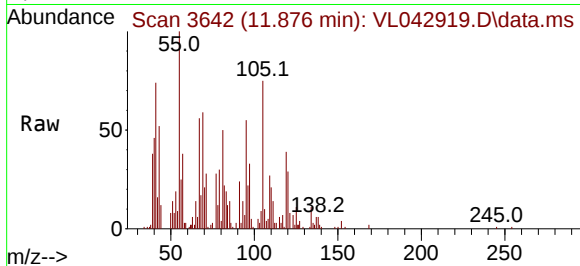




#67
 sec-Butylbenzene
 Concen: 0.078 ppbv
 RT: 11.876 min Scan# 3177
 Delta R.T. 0.117 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

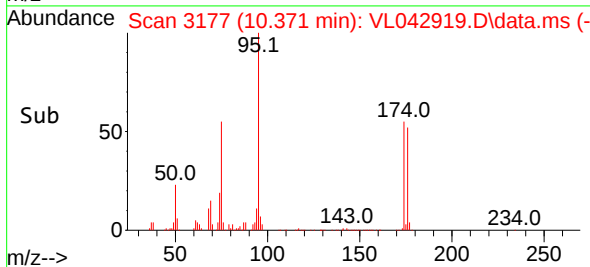
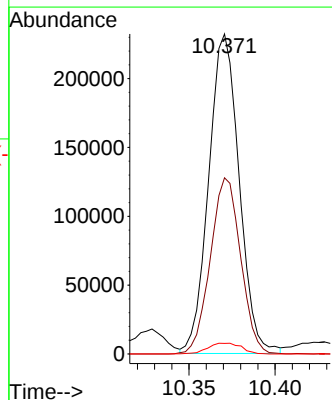
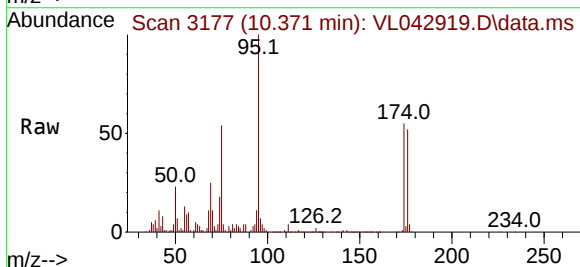
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

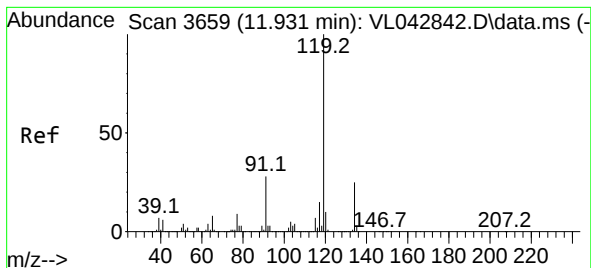
Tgt Ion:105 Resp: 6977
 Ion Ratio Lower Upper
 105 100
 134 19.8 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.760 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.007 min
 Lab File: VL042919.D
 Acq: 09 Sep 2025 08:57

Tgt Ion: 95 Resp: 286120
 Ion Ratio Lower Upper
 95 100
 174 54.8 48.4 72.6
 175 3.8 3.8 5.8#





#69

p-Isopropyltoluene

Concen: 0.050 ppbv

RT: 11.918 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

SV2

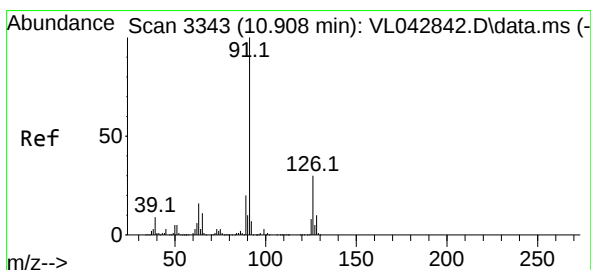
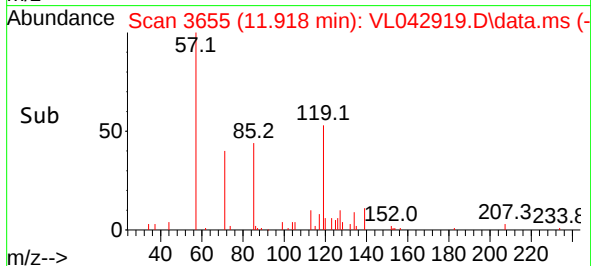
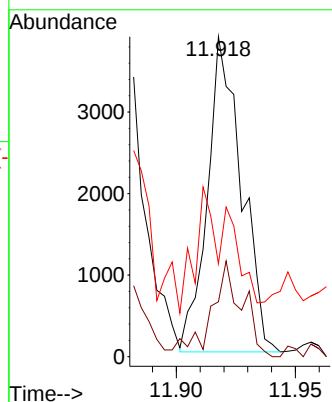
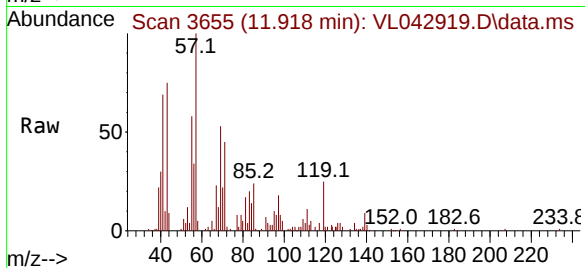
Tgt Ion:119 Resp: 3861

Ion Ratio Lower Upper

119 100

134 19.7 20.6 30.8#

91 41.9 22.6 34.0#



#71

2-Chlorotoluene

Concen: 0.351 ppbv

RT: 10.982 min Scan# 3366

Delta R.T. 0.091 min

Lab File: VL042919.D

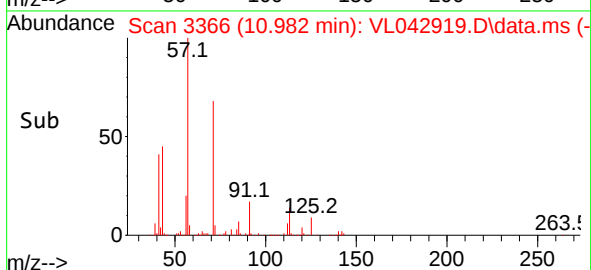
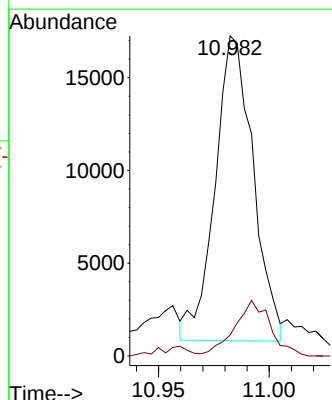
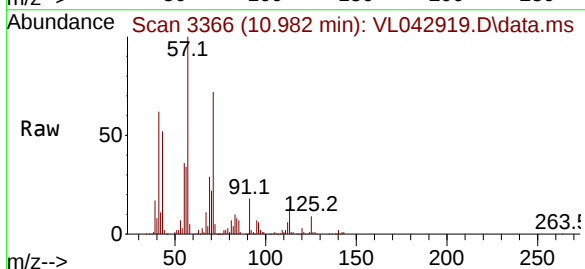
Acq: 09 Sep 2025 08:57

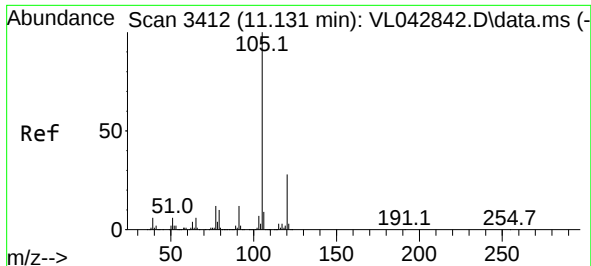
Tgt Ion: 91 Resp: 19663

Ion Ratio Lower Upper

91 100

126 19.7 12.0 47.8

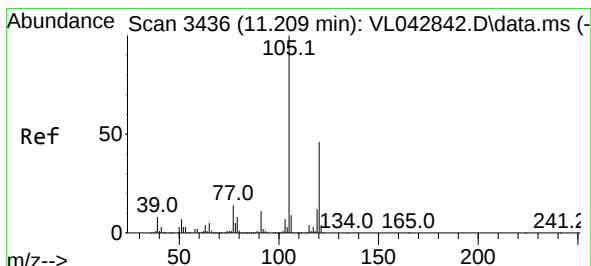
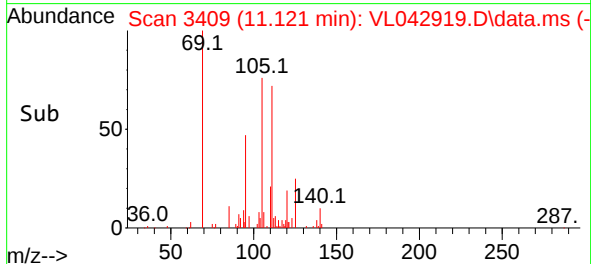
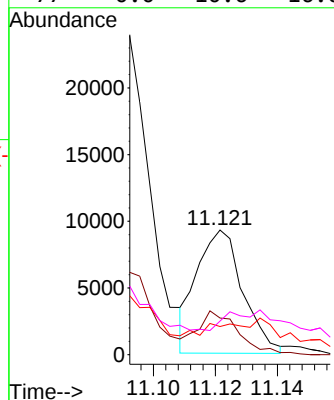
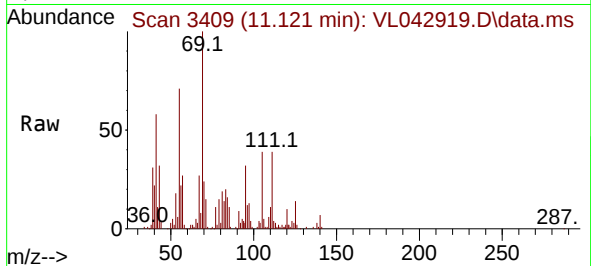




#72
4-Ethyltoluene
Concen: 0.160 ppbv
RT: 11.121 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

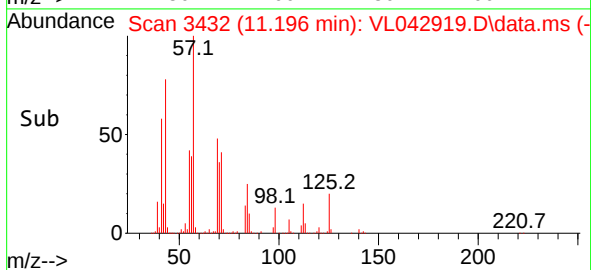
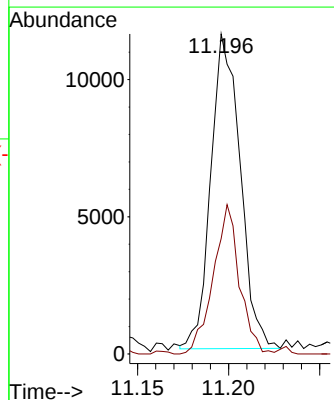
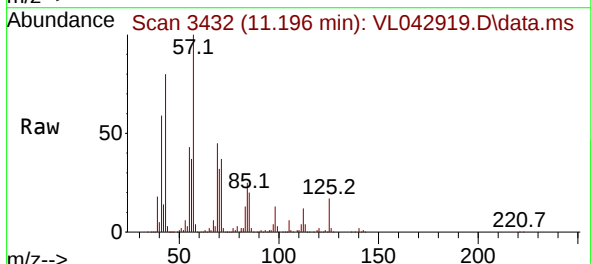
Instrument :
MSVOA_L
ClientSampleId :
SV2

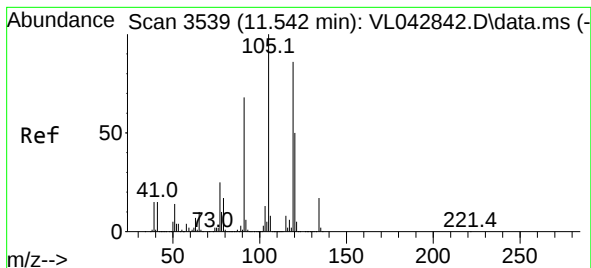
Tgt Ion:105 Resp: 9548
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 0.0 9.8 14.6#
77 0.0 10.6 16.0#



#73
1,3,5-Trimethylbenzene
Concen: 0.253 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. 0.000 min
Lab File: VL042919.D
Acq: 09 Sep 2025 08:57

Tgt Ion:105 Resp: 12878
Ion Ratio Lower Upper
105 100
120 43.1 36.6 54.8





#74

1,2,4-Trimethylbenzene

Concen: 0.475 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 26540

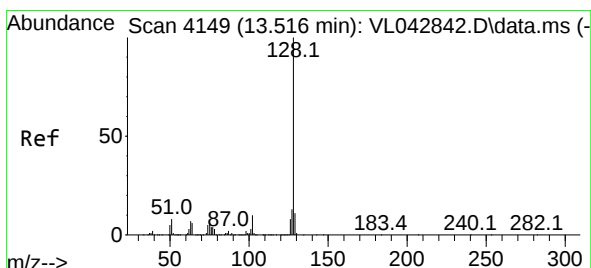
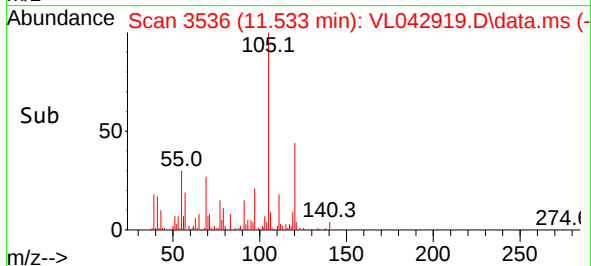
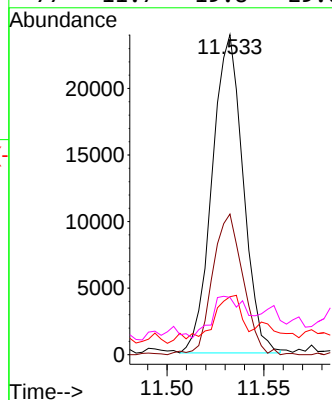
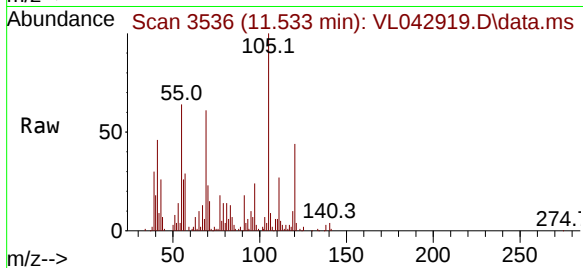
Ion Ratio Lower Upper

105 100

120 43.2 39.8 59.6

91 11.5 54.2 81.4#

77 11.7 19.8 29.6#



#79

Naphthalene

Concen: 0.043 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. 0.007 min

Lab File: VL042919.D

Acq: 09 Sep 2025 08:57

Tgt Ion:128 Resp: 2194

Ion Ratio Lower Upper

128 100

127 41.7 10.6 16.0#

129 23.5 8.9 13.3#

